

COUNTY COUNCIL OF DURHAM.

ANNUAL REPORT

OF THE


Medical Officer of Health,

AND

OTHER RECORDS

FOR THE YEAR

1946.



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Table D.—Chief Vital Statistics of the Administrative County and of England and Wales.

COUNTY COUNCIL OF DURHAM.

To the Chairman and Members of the County Council of Durham.

LADIES AND GENTLEMEN,

I have pleasure in submitting my annual report upon the public health services of the County Council for the year 1946. This is the 58th annual report which has been issued.

The number of children born annually in the County has fluctuated considerably in recent years as the following figures show.—

<i>Year.</i>	<i>No. of Live Births.</i>	<i>Birth Rate.</i>
1943	15,104	18.6
1944	17,154	20.9
1945	15,639	18.9
1946	18,408	21.3

The number of births in 1946 was the highest in any year since 1930.

A striking feature of recent years is the increase in the use of ante-natal clinic facilities. In 1946, the number of expectant mothers attending the clinics was more than double that in 1940, and the number of attendances was almost three times as great. The number of mothers attending the clinics was equal to 71 per cent. of the births in the year.

Maternity cases began to be admitted to Croxdale Hall Maternity Home in January, but though many more cases have been admitted to maternity homes and hospitals than in previous years, the demand for maternity beds still cannot be met by the accommodation available for county patients.

The shortage of nursing staff, and particularly of midwives, for posts in institutional and domiciliary midwifery, continues to cause difficulties in the maintenance of the services, and imposes additional burdens on the existing staff.

The infant mortality rate, 49 per 1,000 live births registered, was the lowest recorded for the County.

Of the infectious diseases, pneumonia and whooping cough showed increases in both incidence and deaths, while there was a pronounced fall in the numbers of cases of diphtheria and of deaths from that disease. The increase in the incidence of tuberculosis which was a feature of the war years shows signs of becoming arrested. As judged by the vital statistics, the health of the people of the County continued to be generally satisfactory.

Towards the end of the year the National Health Service Bill became Law.

I take this opportunity of expressing my appreciation of the willing help and co-operation which I receive from all members of the staff in carrying out the work of the Health Department.

I have the honour to be,

Ladies and Gentlemen,

Your obedient Servant,

IAN McCracken.

*County Health Department,
Shire Hall,
Durham.*

October, 1947.

STAFF OF THE COUNTY HEALTH DEPARTMENT.

COUNTY MEDICAL OFFICER OF HEALTH.

Ian McCracken, M.A., B.Sc., M.B., Ch.B., D.P.H.

DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

G. Wilson, M.B., B.S., B.Hy., D.P.H.

ASSISTANT MEDICAL OFFICER FOR PUBLIC MEDICAL SERVICES.

A. E. Raine, M.B., B.S.

CHIEF CLINICAL TUBERCULOSIS MEDICAL OFFICER.

C. A. O'Neill, M.B., Ch.B., B.A.O.

DISTRICT TUBERCULOSIS MEDICAL OFFICERS.

W. Clark, M.B., Ch.B., D.P.H.

W. D. Gray, M.B., Ch.B.

J. F. E. Johnson, M.B., Ch.B.

J. A. Miller, M.B., B.S. (leave of absence for post graduate course from October, 1946).

J. W. A. Rodgers, M.B., Ch.B., B.A.O., D.P.H. (part-time).

J. D. Trail, M.B., Ch.B. D.P.H. (part-time).

VENEREAL DISEASES CLINICAL MEDICAL OFFICER.

W. G. Annan, F.R.C.S.E., M.D., Ch.B., F.R.S.E.

SENIOR WELFARE MEDICAL OFFICER.

E. S. Williamson, B.Sc., M.B., L.L.A., D.P.H.

ASSISTANT WELFARE MEDICAL OFFICERS.

M. L. Anderson, M.B., Ch.B.

J. W. Bates, M.B., B.S. (part-time).

L. R. Benham, M.B., B.S., D.P.H. (part-time).

H. Blacklay, M.B., Ch.B., D.P.H., L.M.

G. M. Cox, M.B., B.S.

P. Dixon, M.B., B.S.

M. E. Hegarty, M.B., B.Ch., B.A.O.

M. J. Hegarty, M.B., B.Ch., B.A.O., D.P.H.

M. K. Henegan, M.B., B.S., D.P.H.

H. Hindson, M.D., B.S. (part-time).

M. Hopper, M.B., B.S., B.Hy., D.P.H. (part-time).

M. G. Masterton, M.B., Ch.B. also M.O. Hardwick Hall Maternity Home (resigned 30-6-46).

M. F. Murray, L.R.C.P., L.R.C.S. (temporary).

M. T. McFadden, M.B., B.Ch., B.A.O., D.P.H.

J. Mackay, M.B., Ch.B. (returned from H.M. Forces 4.2.46.)

B. Popham, M.R.C.S., L.R.C.P., D.P.H. (part-time).

M. Raw, B.Sc., M.B., B.S.

W. M. Rodgers, M.B., B.Ch., B.A.O., D.P.H.

L. Ross, M.B., B.S. (temporary).

K. Schaps, M.D. (Heidelberg) also M.O. Hardwick Hall Maternity Home, appointed 14.11.46.

E. Schonberger, M.D. (Vienna) also M.O. Croxdale Hall Maternity Home.

V. Thompson, M.B., Ch.B., D.P.H.

MEDICAL SUPERINTENDENT, HOLYWOOD HALL SANATORIUM.

J. W. Gray, M.A., B.Sc., M.D., Ch.B.

ASSISTANT MEDICAL OFFICER.

E. G. W. Hoffstaedt, M.D. (Berlin).

MEDICAL SUPERINTENDENT, SEAHAM HALL SANATORIUM.

W. C. Pinkney, M.B., B.S.

ASSISTANT MEDICAL OFFICER.

Doris B. Clay, M.B., B.S. (appointed 2-12-46.)

MEDICAL OFFICER, EARL'S HOUSE SANATORIUM.

H. R. Shenkin, M.B., Ch.B.

MEDICAL OFFICER, RICHARD MURRAY HOSPITAL JOINT BOARD.

G. Ewen, M.B., Ch.B. (temporary).

CONSULTANT OBSTETRICIANS.

H. R. Arthur, M.B., B.S., F.R.C.S., M.R.C.O.G. (Newcastle).
 F. J. Burke, M.D., M.B., Ch.B., M.R.C.S., L.R.C.P. (Sunderland).
 H. Evers, M.S., M.B., B.S., F.R.C.S., L.R.C.P., (Newcastle).
 W. Hunter, M.D., B.S., (Newcastle).
 R. P. R. Lyle, M.D., B.Ch., B.A.O., B.A., L.R.C.P. (Newcastle).
 E. F. Murray, M.D., Ch.B., F.R.C.S. (Newcastle).
 S. Raw, M.D., B.S., F.R.C.S. (Sunderland).
 S. Ritson, B.Sc., M.B., B.S., M.S., F.R.C.S., M.R.C.S., L.R.C.P.
 (Sunderland).
 T. G. Robinson, M.R.C.S., L.R.C.P., M.R.C.O.G. (South Shields).
 Z. M. H. Ross, M.B., Ch.B., F.R.C.S. (Sunderland).
 F. E. Stabler, M.D., B.S., F.R.C.S. (Newcastle).
 G. F. Walker, M.D., Ch.B., M.R.C.P. (Sunderland).
 S. A. Way, M.R.C.S., L.R.C.P., M.R.C.O.G. (Newcastle).

DENTAL SURGEONS—PART-TIME AT WELFARE CENTRES.

G. Clarke, L.D.S.
 W. Moss, L.D.S.
 F. J. Norris, L.D.S.
 N. Peters, L.D.S.
 E. Renwick, L.D.S.
 R. W. Sibson, L.D.S., R.C.S.
 T. H. Smailes, L.D.S.
 S. Todd, L.D.S.

COUNTY ANALYST (PART-TIME).

C. J. H. Stock, B.Sc., F.R.I.C.

COUNTY HEALTH INSPECTOR.

W. D. Parry, A.I.S.E., A.R.S.I., M.R.Inst.P.H. & H.,
 M.Inst. S.P.

DRYBURN EMERGENCY HOSPITAL.

MEDICAL SUPERINTENDENT.

J. B. Marinan, M.B., B.Ch., B.A.O., F.R.C.S.

RESIDENT MEDICAL OFFICER.

F. J. Rath, M.B., B.Ch., B.A.O.

ASSISTANT RESIDENT MEDICAL OFFICER.

H. C. Butterworth, M.B., B.S. (appointed 30.7.46).

RESIDENT SURGICAL OFFICER.

A. B. Wood, M.R.C.S., L.R.C.P. (resigned 27-7-46).

A. Webb-Jones, M.B., B.S. (appointed 25-7-46.)

SUPERINTENDENT HEALTH VISITOR.

Mrs. D. Barrett.

DEPUTY SUPERINTENDENT HEALTH VISITORS.

Miss A. Fraser.

Miss M. Fothergill.

HEALTH VISITORS.

The establishment of health visitors is 116. On the 31st December there were 92 health visitors on the staff and the following summary shows the qualifications possessed by each health visitor.

Supt. Health Visitor possesses	1 Ministry of Health
qualifications number 3, 6, 7	Certificate for Health
1 Dep. Supt. Health Visitor „ 1, 6, 7	Visitors.
1 „ „ „ „ „ 1, 6, 7	2 Board of Education
80 Health Visitors „ 1, 6, 7	Diploma, Health
1 „ „ „ „ 2, 6,	Visitors.
2 „ „ „ „ 3, 6, 7	3 Health Visitors' Cer-
3 „ „ „ „ 4, 6,	tificate (Royal Sani-
2 „ „ „ „ 1, 7,	tary Institute.)
1 „ „ „ „ 7.	4 Sanitary Inspectors'
1 „ „ „ „ 1, 6.	Certificate (Royal
1 „ „ „ „ 5, 6.	Sanitary Institute).
1 „ „ „ „ 5, 7.	5 Sanitary Inspectors'
	Certificate (Sanitary
	Inspectors' Examina-
	tion Joint Board).
	6 Certificate of Central
	Midwives Board.
	7 State Registered
	Nurse.

Also 5 Temporary Health Visitors.

COUNTY MIDWIVES INSPECTOR.

Miss E. F. Brown (Qualifications 3, 4, 6, 7, retired Nov., 1945).

Miss K. Furness (Qualifications 1, 6, 7, promoted November, 1945).

ASSISTANT COUNTY MIDWIVES INSPECTOR.

Miss H. P. Robson (Qualifications 6, 7, appointed March, 1946).

DOMICILIARY MIDWIVES.

The establishment of midwives is 146, and on the 31st December there were 130 midwives on the staff.

WEIGHTS AND MEASURES INSPECTORS, WHO ALSO ACT AS FOOD AND DRUGS SAMPLING OFFICERS.

J. W. Bache (Chief).

A. Graham (Deputy).

E. F. F. Braund.

T. Lamb.

R. A. Morrison.

E. G. Pickering.

J. W. Simpson.

J. Trotter, B.Sc.

G. W. Woods.

COUNTY SANATORIA.

3 Matrons, 3 School Teachers, Nursing, Domestic and Out-door Staffs.

COUNTY MATERNITY HOMES.

3 Matrons, Nursing and Domestic Staffs.

E. F. PEILE COUNTY CONVALESCENT HOME.

Matron, Nursing and Domestic Staffs.

Caretakers of Tuberculosis Dispensaries and Child Welfare Centres.

Two Venereal Diseases Orderlies.

One Motor Ambulance Driver.

PUBLIC ASSISTANCE DISTRICT MEDICAL OFFICERS AND
PUBLIC VACCINATORS.

Name.	Qualifications.	D.M.O.'s District.	No. of P.V. Districts
Adamson, C.	M.A., M.B., B.Ch., M.R.C.S., L.R.C.P.	Durham (Eastern)	388
Alderson, B. S.	M.B., B.S.	Lanchester	144
Alexander, J. B.	M.A., L.M.S.S.A.	Hamsterley	155
Allan, W. B.	M.B., B.S.	Chester-le-Street	468
Allen, R. B.	M.B., B.S.	—	233
(P.V. only)			111
Anderson, J. B.	M.B., Ch.B.	—	285
(P.V. only)			
Anderson, P. V.	M.B., B.S.	Shildon	511
Anderson, S. E. H.	M.B., B.S.	Cockfield	622
Barkes, W.	M.D., B.S.	Houghton	244
		Newbottle	
Benson, W. A.	L.R.C.P., L.R.C.S.,	—	133
(P.V. only)	L.R.F.P.S.		
Boland, S. E. W.	L.R.C.P., L.R.C.S.,	Tanfield	—
(D.M.O. only)	L.R.F.P.S.		
Brown, R.	M.B., Ch.B.	Durham (St. Nicholas)	355
Cama, D. B.	L.R.C.P., L.R.C.S.,	Escomb	438
	L.R.F.P.S.		
Campbell, A.	M.B., Ch.B.	Evenwood	—
(D.M.O. only)			
Charlton, A.	M.B., B.S.	Thornley (Tow Law)	322
		Esh	168
Cort, F.	M.B., Ch.B.	Whitburn	100
Craven, J. G.	M.B., Ch.B.	Billingham	738
		Norton	
Dawson, R.	M.A., M.D., Ch.B.	Middleton	600
		Egglesstone	61
Denholm, W. H.	M.B., B.S.	Durham (Western)	34
Dickey, T.	M.B., B.Ch., B.A.O.	Hylton	27
Ewen, G.	M.B., Ch.B.	Iveston	—
(D.M.O. only)			
Fairbairn, L.	M.B., B.S.	Dunston	—
(D.M.O. only)			
Farmer, A. R.	M.B., Ch.B.	Hartlepool	59
Field, N. F.	M.B., B.S.	Ford	—
(D.M.O. only)			
Fletcher, R.	M.B., Ch.B.	Park and Forest	31
Forbes, A.	M.B., Ch.B.	Boldon	—
(D.M.O. only)			
Gale, W. S.	M.B., B.S.	Heighington	66
Gillan James	M.B., Ch.B.	Ryhope	—
(D.M.O. only)			
Gillan, John	M.A., M.B., C.M.	—	29
(P.V. only)			
Glynn, J. J.	M.B., B.Ch., B.A.O. (N.U.I.)	Witton Gilbert	20
Graham, R. P.	M.B., B.S.	Byers Green	49
Gray, A. P.	M.B., Ch.B.	Thornley	39
Hall, H. F. G.	M.B., Ch.B.	—	7
(P.V. only)		—	9

Name.	Qualifications.	D.M.O.'s District.	No. of P.V's. District.
Hardie, W. G.	M.B., Ch.B.	Howden	44
Harris, I. (P.V. only)	B.A., M.B., D.Ch.	—	3
Henderson, W. M. P.	M.A., B.Sc., M.B., Ch.B.	Chopwell	2
Hepburn, J. (D.M.O. only)	L.R.C.P., L.R.C.S., L.R.F.P.S.	Medomsley	—
Hewitson, W. A. (D.M.O. only)	M.B., M.S., F.R.C.S.	Easington	—
Hickey, W. J.	M.B., B.S.	Gainford	65
Hindhaugh, J. C. V.	M.B., B.S.	Sedgefield	56
		Bishopton	57
Hunter, M.	M.B., Ch.B.	Chilton	53
Jones, I. M. (D.M.O. only)	M.B., B.S.	Tunstall	—
Kelly, T. L. (P.V. only)	M.B., B.S.	—	5
Kent, H. S.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Middleton-St. George	70
Kidd, E.	M.B., B.S.	Harraton	22
Laydon, J. H. (D.M.O. only)	M.B., B.S.	Jarrow	—
Leishman, A.	M.B., Ch.B.	Barnard Castle	63
Lishman, F.	M.B., B.S.	Crook	45
Lloyd, A. G. (D.M.O. only)	M.R.C.S., L.R.C.P.	Penshaw	—
MacKenzie, M. D.	M.B., Ch.B.	Consett	12
MacPherson, A. G. R.	M.B., Ch.B.	West Auckland	47
MacRae, A. K. (P.V. only)	M.B., Ch.B.	—	41B
Mather, G. S.	M.B., Ch.B., D.P.H.	Greatham	58
Melrose, W. W. N. (P.V. only)	M.B., B.S.	—	19
Millar, M. F. St. J. (D.M.O. only)	M.B., B.S., D.Obst.	Heworth	—
Miller, A.	M.B., B.Ch., B.A.O.	Trimdon	55
Moffatt, J.	M.B., Ch.B.	Durham (Southern)	37
Morrison, J. W. (D.M.O. only)	M.B., B.S.	Winlaton	—
Mukerji, N. (D.M.O. only)	B.Sc., L.R.C.P., L.R.C.S., L.R.F.P.S.	Stanley	—
McConchie, J. F.	M.B., Ch.B.	Wolsingham	33
Neilan, J. A.	L.R.C.P.I., & L.M., L.R.C.S.I., & L.M., D.P.H., L.M.	Seaham	42
Oliver, O. H. D.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Cornforth	54
Ord, A. F. T.	M.B.I., Ch.B.	Piercebridge	67
Parry, R. (D.M.O. only)	L.R.C.P., L.R.C.S., L.R.F.P.S.	Annfield Plain	—
Porteous, A. M. (P.V. only)	M.B., Ch. B.	—	41
Ritchie, F.	M.B., Ch.B., D.P.H.	Stockton	71
Rollin, H. C. (P.V. only)	M.B., B.S.	—	17

Name.	Qualifications.	D.M.O.'s District.	No. of P.V.'s District
Russell, H.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Rainton	25
Russell, R. G.	M.B., Ch.B.	Wingate	40
Rutherford, R. (P.V. only)	M.B., B.S.	—	18
Sacco, J. A.	M.B., B.S.	Ryton	1
Scott, W. B. (P.V. only)	M.B., Ch.B.	—	41A
Shier, T.	M.B., B.Ch., B.A.O.	Birtley	21
Smith, A.	M.B., B.S.	Whickham	4
Stein, M.	M.B., Ch.B.	Ferryhill	52
Stubbs, D. E.	M.B., B.S.	Darlington	68
Swainston, J. N.	M.B., B.S.	Hebburn	8
Thomson, D.	M.B., Ch.B.	Stanhope	30
Tindall, R.	M.B., Ch.B.	Hurworth	69
Tinsley, S. V.	M.B., Ch.B.	Tudhoe	36
		Whitworth	50
Ward, J. G.	M.B., Ch.B.	Cleatlam	64
Wardle, V. H.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Bishop Auckland	48
Watson, M. A.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Hetton	26
Whyte, J. D. (P.V. only)	M.B., Ch.B.	—	6
Wilmot, K. G. (P.V. only)	M.B., B.S.	—	72

MEDICAL OFFICERS AND PUBLIC VACCINATORS OF PUBLIC ASSISTANCE INSTITUTIONS AND COTTAGE HOMES.

Name.	Qualifications.	Institution.	No. of P.V.'s District
Alderson, B. S.	M.B., B.S.	Lanchester	79
Allan, W. B.	M.B., B.S.	Chester-le-Street	75
Barkes, W.	M.D., B.S.	Houghton-le-Spring	78
Hewitson, W. A.	M.B., M.S., F.R.C.S.	Easington	77
Hindhaugh, J. C. V.	M.B., B.S.	Sedgefield	80
Leishman, A.	M.B., Ch.B.	Barnard Castle	82
Macintyre, G. M.	M.B., B.S.	Medomsley Cottage Homes	85
McDonald, J. R.	M.B., Ch.B.	Durham	76
Ritchie, F.	M.B., Ch.B., D.P.H.	Stockton	81
Strang, N. (P.V. only)	M.B., Ch.B.	Cleadon Cottage Homes	84
Wardle, V. H.	L.R.C.P., L.R.C.S., L.R.F.P.S.	Bishop Auckland	74

VACCINATION OFFICERS.

Name	Registration Sub-Districts.
Armin, Miss G.	Sunderland.
Armin, Mrs. L.	Consett.
Atkinson, M. W.	Stanley.
Bird, T. D.	Bishop Auckland, Spennymoor.
Carr, R.	Crook.
Carter, J.	Easington.
Cartman, H. W.	Felling.
*Clark, C. R.	Ryhope, Tunstall, Ford.
*Davison, W. W.	Aycliffe, Hurworth.
Hill, Mrs. A. M.	St. John, Stanhope, Wolsingham.
† Jobling, M.	Whickham, Sunnyside.
Leonard, H. T.	Barnard Castle, Staindrop, Middleton.
Luck, A. E.	Seaham.
Malkin, G. P.	Hartlepool, Greatham.
Mellon, M.	Durham.
Morrison, J. J.	Jarrow.
Nichol, A.	Sedgefield.
Porter, W.	Shildon.
Roberts, J.	Chester-le-Street.
Salmon, W.	Stockton.
Smith, T. T.	Blaydon.
Stephenson, W.	Lanchester, Brandon.
Thorman, Miss M. I.	Houghton-le-Spring.
Wild, F.	Castle Eden.
Wood, W. H.	Birtley.

* Not Registrar of Births and Deaths.

† Also Relieving Officer.

STATISTICS.

Area	623,260 acres
Registrar-General's estimate of population, mid-1946	863,530
Rateable value as at the 1st April, 1946	£3,870,170
Sum represented by a penny rate	£14,573

		Total.	Males.	Females.
Live Births	{ Legitimate	17,487	8,985	8,502
	{ Illegitimate	921	481	440
Stillbirths	{ Legitimate	590	314	276
	{ Illegitimate	49	18	31
Total births (live and still)		19,047	9,798	9,249

Birth Rate per 1,000 estimated population mid-1946	21.3
Still-birth Rate per 1,000 total (live and still) births	33.5
Number of Deaths	10,025
Death Rate per 1,000 estimated average population	11.6

Deaths from puerperal causes :—

	Deaths	Rate per 1,000 total (Live and still) births.
Puerperal Sepsis	9	0.47
Other puerperal causes	41	2.15
Total	<u>50</u>	<u>2.62</u>

Death Rate of Infants under one year of age :—

All infants per 1,000 live births	49
Legitimate infants per 1,000 legitimate live births	49
Illegitimate infants per 1,000 illegitimate live births	61

Deaths and Death Rates from :—

	No. of Deaths.	Rate per 1,000 estimated average population.
Cancer	1,421	1.65
Measles	14	0.02
Whooping Cough	25	0.03
Diarrhoea (under 2 years of age)	81	0.09
Scarlet Fever.....	4	0.005
Diphtheria	17	0.02
Typhoid and Paratyphoid	1	0.001

BACTERIOLOGICAL LABORATORY FACILITIES.

No change was made in the arrangements whereby all those investigations required in the administrative county which can be are undertaken at the "Central Public Health Laboratory" and the "City Bacteriological Laboratory" Newcastle-on-Tyne, provided by the Joint Committee constituted under Section 91 of the Local Government Act, 1933.

The following table shows the number of specimens submitted for examination.

		General Practitioners.	Hospitals.	Tuberculosis Dispensaries and Sanatoria.	V.D. Clinics.	School Medical Officers.	Sanitary Insp.	TOTAL.
<i>Swabs for :</i>	Diphtheria	1,527	3,670	7	—	89	—	5,293
	Haem. streptococci	108	514	5	—	7	—	634
	Vincent's Angina	20	49	—	—	—	—	69
	Organisms	90	70	1	—	—	—	161
<i>Blood for :</i>	Widal examination	225	34	2	—	—	—	261
	Wassermann reaction	180	1,192	1	2,370	—	—	3,743
	Kahn test	15	12	—	1,059	—	—	1,086
	Gonococci complement fixation	14	81	—	232	—	—	327
	Culture and misc. exam.	19	28	3	—	—	—	50
<i>Sputum for :</i>	Tubercle bacilli	1,242	—	2,827	—	—	—	4,069
	Organisms	18	9	6	—	—	—	33
	Concentration test	3	—	6	—	—	—	9
<i>Smears for :</i>	Micro-organisms	29	23	—	695	—	—	747
<i>C.S. Fluid for :</i>	Wassermann reaction	—	200	—	32	—	—	232
	Goldsol test	—	2	—	1	—	—	3
	Colloidal test	—	—	—	—	—	—	—
	General	4	61	2	—	—	—	67
<i>Ascitic Fluid</i>		—	—	2	—	—	—	2
<i>Pus and other Fluids for :</i>	Organisms	7	4	31	—	—	—	42
<i>Faeces for :</i>	Enteric, Dysentery, Food Poisoning, etc.	235	350	10	—	—	—	595
	Organisms	4	1	—	—	—	—	5
	Tubercle bacilli	—	—	4	—	—	—	4
<i>Urine for :</i>	Enteric	86	130	1	—	—	—	217
	Organisms	14	13	3	—	—	—	30
	Tubercle bacilli	3	—	11	—	—	—	14
<i>Water for :</i>	Coliform organisms	—	—	—	—	—	251	251
<i>Ice Cream for :</i>	B.Coli and Count	—	—	—	—	—	138	138
<i>Milk for :</i>	B.Coli	—	—	—	—	—	116	116
	Methylene blue test	—	—	—	—	—	538	538
	B.Coli and meth. blue	—	—	—	—	—	524	524
	B.Coli and count	—	—	—	—	—	287	287
	Phosphatase test	—	—	—	—	—	11	11
	Phosphatase and count	—	—	—	—	—	20	20
<i>Miscellaneous for :</i>	Pathogens	2	—	—	—	—	34	36
<i>ANIMAL INOCULATION.</i>								
	Diphtheria swabs for virulence	6	88	—	—	2	—	96
	Milk for tubercle bacilli	—	—	—	—	—	241	241
	Miscellaneous for tubercle bacilli	1	—	19	—	—	—	20
TOTALS		3,852	6,531	2,941	4,389	98	2,160	19,971

NURSING IN THE HOME.

General nursing in the home continues to be carried out in this administrative county through the district nursing associations, 121 of which are affiliated to the County Nursing Association. These Associations employ 165 nurses and they undertake medical and surgical nursing. In the case of 56 district nursing associations, by an agreement between the County Council and the County Nursing Association under the Midwives Act, 1936, the nurses also act as midwives and maternity nurses. The number of general cases attended during the year was 14,952.

TREATMENT CENTRES AND CLINICS.

Maternity and Child Welfare Centres.—The number of maternity and child welfare centres (78) and dental clinics (12) remained unchanged throughout the year. One ante-natal clinic was closed during the year leaving 68 in operation at the end of the year. Two post-natal clinics, 3 birth control clinics, and 2 artificial sunlight clinics, were opened during the year, making a total at the end of the year of 28, 19, and 24 respectively.

Tuberculosis Dispensaries, Venereal Diseases Treatment Centres, and Mental Treatment Clinic.—There were no changes during the year.

GENERAL HOSPITALS.

The following statement shows the number of county patients approved for admission to general hospitals for surgical and other treatment, classified by types of condition :—

TABLE 2.

Hospital.	Type of Case.							Totals.
	Cancer.	Gynaecological.	Medical.	Surgical (general).	Neuro surgical.	Thoraco-surgical.	Unclassified	
Gateshead General	—	2	33	24	—	—	11	70
Middlesbrough General	—	—	1	—	—	—	—	1
Newcastle General	277	—	—	—	163	221	135	796
Royal Victoria Infirmary Newcastle	3	—	—	—	—	—	—	3
Sunderland Municipal	—	4	10	13	—	—	4	31
Sunderland Royal Infirmary	89	—	—	—	—	—	—	89
Totals	369	6	44	37	163	221	150	990

PUBLIC ASSISTANCE MEDICAL SERVICES.

The following table shows the number of applications for special forms of outdoor medical relief dealt with during the year compared with the previous three years :—

TABLE 3.

	1946	1945	1944	1943
Provision of :—				
Dental treatment (by local dental practitioners)	13	9	11	13
Surgical appliances	160	149	117	119
Ophthalmic treatment	264	239	219	217
Clothing to enable tuber- culous patients to proceed to sanatoria	10	5	11	38
Insulin	118	113	91	35
Special medicaments	73	58	44	30
Totals	638	573	493	452

Dental Clinics.—Dental treatment recommended by district medical officers is afforded at the dental clinics established at the Bishop Auckland and Chester-le-Street public assistance institutions. The following table gives a summary of the work completed at the clinics during the year :—

TABLE 4.

	Clinic.	
	Bishop Auckland.	Chester- le-Street.
Sessions	47	55
Patients	177	241
No. of Attendances	410	580
Waiting list 1.1.46	2	18
Receiving treatment on 1.1.46	12	13
Number of new applications received	155	215
	169	246
Number of cases in which treatment completed	145	198
Number of cases in which treatment given but not completed on 31.12.46	7	7
Number of applications withdrawn	6	13
Waiting list (treatment not commenced 31.12.46)	11	28
	169	246

Outdoor Medical Relief.—Part-time medical officers appointed to specified medical relief districts continue to provide this service. During the year the final two district medical officers serving with H.M. Forces were demobilised and resumed their appointments. Five changes in personnel occurred, and at the end of the year there were 70 officers in the outdoor medical service.

Public Assistance Institution Hospitals.—The heavy demand for hospital beds for public assistance patients continued during the year under review, as the following table will show :—

TABLE 5.

Total number of hospital beds 31/12/1946.	Admissions during year.									
	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
1441	2828	2618	2634	3084	2917	2387	2534	2858	2422	2637

At the same time a considerable amount of work under the E.M.S. scheme was carried out at the Bishop Auckland Hospital and a lesser amount at the Chester-le-Street, Easington and Barnard Castle hospitals and these facts, combined with the general shortage of nurses, have made it difficult to find adequate nursing staff for each hospital. With the object of counteracting this shortage plans were formulated to have several of the hospitals recognised as training schools for assistant nurses in conformity with the provisions of the Nurses Act, 1943, and Nurses Regulations, 1945.

As in pre-war years public assistance patients requiring surgical treatment are transferred to the Lecholme Hospital, Easington, where 193 operations were performed by the Surgeon Specialist, Mr. W. A. Hewitson, M.B., M.S., F.R.C.S. (Eng.), during the year.

Admissions to, and discharges from, public assistance institution hospitals for the period 1st January to 31st December, 1946, are set out in the following table :—

TABLE 6.

Name of Institution.	In residence 1-1-46	Ad- missions.	Deaths	Dis- charges	In residence 31-12-46
Barnard Castle	37	128	28	88	49
Bishop Auckland	193	579	88	493	191
Chester-le-Street	109	570	183	317	179
Durham	171	204	90	111	174
Easington	194	543	144	412	181
Houghton-le-Spring	54	128	62	66	54
Lanchester	244	379	87	323	213
*Sedgefield.....	—	50	—	50	—
†Stanhope	—	—	—	—	—
Stockton	148	247	89	154	152
Totals	1150	2828	771	2014	1193

*This institution became a colony for aged (female) infirm and female adolescents 2/9/35.

†This institution was closed 31/5/46.

Appended are the names of the nine public assistance institutions, together with the sick ward bed accommodation and staff on 31st December, 1946.

TABLE 7.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Sick ward bed accommodation and staff at public assistance institutions.

Name of Institution.	No. of Beds in Sick Wards			Medical Officer Part time—Non-resident	Supt. Nurse.	Trained Nurses	Assis- tant Nurses	Male Nurses	Mental Attendants.		Trained	Assist- ants.	Auxilia- ries.
	M.	F.	C.						M.	F.			
Barnard Castle	61	—	—	1	—	2	2	11	—	—	—	—	—
Bishop Auckland	98	73	20	1	1	11	14	5	—	8	7	27	4
Chester-le-Street	138	156	18	1	1	4	18	23	—	—	2	8	11
Durham	113†	65	10	1	1	2	13	6	7	—	—	—	—
Easington	93	103	20	1	1	3	21	13	—	—	—	6	5
Houghton-le-Spg.	24	32	—	1	1**	—	11	4	—	—	—	—	—
Lanchester	93	120†	42	1	1	1	23	7	—	6	1	10	—
Sedgefield	—	4	—	1	—	—	—	—	—	—	—	—	—
Stockton	93	64	11	1*	1	3	9	7	—	—	—	—	—
Totals	703	617	121	9	7	26	111	76	7	14	10	51	20

* Full-time appointment as District Medical Officer, Public Vaccinator and Medical Officer, P.A. Institution and Cottage Homes.

** The Matron, who is a State-Registered Nurse, is in charge of nursing at this hospital.

† Includes 48 beds for male mental patients.

‡ Includes 44 beds for female mental patients.

MENTAL DEFICIENCY ACTS, 1913-1938.

Ascertainment.—On the 31st December, 1946, there were 2,659 mentally defective persons on the register, which number gives an ascertainment figure of 3.08 per 1,000 population of the administrative county.

Table 8 shows the sex distribution of the children and adults on the register.

TABLE 8.

Distribution of Cases.	Male		Female		Totals
	Children	Adults	Children	Adults	
In institutions	17	188	10	253	468
On licence from institutions	1	13	—	22	36
In special schools	3	—	2	—	5
In state institutions	—	18	—	7	25
In elected homes	—	13	—	8	21
In public assistance institutions	14	74	4	74	166
In asylums....	6	86	6	77	175
Under guardianship	—	33	—	39	72
Domiciliary supervision	155	631	125	728	1639
Pending	—	25	—	22	47
Adults in H.M. Forces	—	4	—	1	5
Totals	196	1085	147	1231	2659

During the year under review, 144 cases were added to the register.

Under the provisions of the Education Act, 1944, the Local Education Authority has notified during the year to the Mental Deficiency Acts Committee the following :—

	M.	F.	Total.
Under Section 57 (3)—children considered in- educable within the school system	32	23	55
Under Section 57(5) —children who require further supervision after leaving school	10	5	15

Certification.—Thirty-three petitions were presented and an Order under the Acts was made in each case—22 for institutional care and training and 11 for guardianship.

Only one person was discharged from Order, having developed and improved with institutional training to such a degree that he could be allowed to move about in his own social sphere without supervision of any kind.

Institutional Accommodation.—The classification of defectives in certified institutions or colonies who are chargeable to the County Council is shown in Table 9.

TABLE 9.

Classification.	Male		Female		Total.
	Children	Adults	Children	Adults	
Idiots	—	2	1	2	5
Imbeciles	16	92	8	97	213
Feeble-minded	2	106	3	168	279
Moral defectives	—	1	—	6	7
Totals	18	201	12	273	504

Vacancies in certified institutions are still very difficult to secure, only 22 being obtained during the year.

Leave of absence on licence from institutions for varying periods was granted to 16 defectives, 9 to their own homes and 7 to places of employment. Fourteen male and 22 female defectives were on licence at the end of the year.

Guardianship.—Twelve defectives were placed under the statutory guardianship of their parents during the year. The number under this section of the Act and directly supervised by this Authority on the 31st December, 1946 was : 68 (male 30 ; female 38).

Domiciliary Supervision.—The county health visitors continued to provide this service making 6,339 visits to 1,859 defectives during the year.

Of the defectives known to this Authority, 24 have given birth to children during this period, 12 while unmarried. Four male and 13 female defectives were married.

North Eastern Council for Mental Welfare.—This Council on behalf of the Mental Deficiency Acts Committee was able to place 4 male and 4 female defectives in employment during the year and at the end of this period was supervising 5 male and 17 female Durham patients.

Examinations by the Medical Officer.—The number of examinations made for the purpose of certification or classification is shown in Table 10.

TABLE 10.

Examinations.	Certifiable.	Not certifiable.	Total
Domiciliary	28	14	42
In institutions	12	3	15
Under guardianship	53	—	53
In Medical Officer's office	5	—	5
In H.M. Prison, Durham	6	—	6
	104	17	121

School Aycliffe Colony.—This Colony, which was requisitioned by the War Department during 1940 and remained in that Department's possession until November, 1945, required many repairs and renovations before it could be considered suitable to accommodate patients. This work was commenced during the year and much progress has been made.

The Medical Superintendent and some of the senior officers have been appointed.

The furnishing and equipping of the colony is proceeding with a view to providing accommodation for 204 male and 156 female mental defectives and the necessary residential staff.

DOMICILIARY MIDWIFERY.

For the purpose of the provision of an adequate service of certified midwives who would be available within the area for attendance on women within their own homes as midwives or maternity nurses, as required by the above Act, the area administered by the County Council as the Local Supervising Authority, i.e., the Administrative County less the Municipal Borough of Stockton-on-Tees was divided into the following two groups of areas. The County Council scheme came into operation on the 1st October, 1937.

GROUP I.

Areas served by District Nurse-Midwives employed by District Nursing Associations.

Name of District Association.	Area served.	No. of Nurse-Midwives employed.
Barnard Castle & Startforth	Parishes of Barnard Castle (Urban) Streatlam and Stainton, Westwick and Marwood	2
Belmont	Parishes of Belmont and West Sherburn	1
Burnhope Colliery	Burnhope, Peartree, Holinside and Jaw Blades	1
Burnopfield	Burnopfield, including Hobson, Lintz, Friarside, Mountsett and Leazes	2
Butterknowle	Parishes of Lynesack and Softley, and Evenwood and Barony	1
Byers Green	Parishes of Byers Green, Newfield, Binchester, Todhills, Seldom Seen, Binchester Whins, and Vinovium	1
Castle Eden	Parishes of Castle Eden, part of Hutton Henry and part of Monk Hesleden	1
Castletown	North Hylton and Castletown	1
Cleadon	Parish of Cleadon	1
Cockfield	Parish of Cockfield	1
Craghead	Craghead, Holmside, Bloemfontein, Blackhouse, Council Houses, Edmond-sley	2
East Hetton	Old Cassop, Quarrington Hill and East Hetton	2

Name of District Association.	Area served.	No. of Nurse-Midwives employed.
Elwick and Hart	Hart, Elwick, Elwick Hall, Dalton Piercy, Embleton, Nesbitt, Thorpe Bulmer, Sheraton-with-Hulam and Crimdon (Hart Station)	1
Etherley & Toft Hill	Etherley Grange, Etherley, Toft Hill, Windmill, Woodhouse Lane, High Etherley	1
Evenwood and Ramshaw	Evenwood and Ramshaw	1
Fishburn	Parish of Fishburn	1
Frosterley	Frosterley, Bollilhope, Hill End, Bishopley, White Kirtley and Stanhope	1
Gainford	Parishes of Gainford, Headlam, Langton, Ingleton, Morton Tinmouth, Killerby, Bolam, Summerhouse, Denton, Walworth, Piercebridge, Winston, Wackerfield, High Coniscliffe and Low Coniscliffe	1
Great Aycliffe	Aycliffe & Heighington, Brafferton, Coatham Mundeville, Preston-le-Skerne, Woodham, Whessoe	1
Greatham	Parishes of Greatham, Newton Bewley, Claxton and Wolviston	1
Haswell	Haswell and Haswell Old Colliery	1
Howden-le-Wear	Howden-le-Wear, North Beechburn, Fir Tree, Greenhead, High Grange and Newton Cap	1
Hunwick	Hunwick, Rumby Hill, Quarryburn and Pixley Hill	1
Hurworth and Neasham	Parishes of Hurworth, Low Dinsdale and Neasham	1
Lamesley	Lamesley and Kibblesworth	1
Lanchester	Lanchester, Satley, Malton Colliery and part of Greencroft	1
Ludworth	Shadforth, Ludworth and Haswell Plough	1
Lumley & Fencehouses.	Great Lumley and Little Lumley, Cocken, Burnmoor, part of Biddick and Morton Grange, Lambton and Dubmire	3
Metal Bridge and Tursdale.	Hett, Metal Bridge and Tursdale	1
Middleton-in-Teesdale.	Parishes of Middleton-in-Teesdale, Harwood and Newbiggin	1
Middleton-St.-George.	Parishes of Middleton-St.-George, Sadberge, Great Burdon and Morton Palms	1
Murton	East Murton, Cold Hesledon and Dalton-le-Dale	4
New Brancepeth	Brandon and Byshottles (North Ward), New Brancepeth	1
Ouston, Urpeth and Pelton	Ouston, Urpeth, Pelton	1

Name of District Association.	Area served.	No. of Nurse-Midwives employed.
Page Bank, Brancepeth and Whitworth	Page Bank, Brancepeth Village and part of the Parish of Whitworth	1
Pelton Fell	Pelton Fell, Newfield, Pelton Lane Ends and Grange Villa	2
Preston and Egglescliffe	Parishes of Preston, Egglescliffe and Aislaby	1
Raintons and Leamside	East and West Rainton, Leamside	1
Rookhope	Rookhope and Eastgate	1
Sacriston	Sacriston, Edmondsley and part of Witton Gilbert	2
Sedgefield	Parishes of Sedgefield, Mordon, Foxton and Shotton, Butterwick and Bradbury	1
Shotley (North-umberland)	Muggleswick and Edmundbyers	1
Silksworth	Silksworth, Tunstall, Burdon Village, and part of Houghton-le-Spring	3
South Hylton	South Hylton	1
Staindrop	Parishes of Staindrop, Cleatlam, Raby and Keverstone and Langleydale and Shotton	1
Stanley	Stanley, including New South Moor, part of South Moor and Oxhill, south side of Stanley and Co-operative Villas, Stanley North and Shield Row, part of Beamish Parish and Holmside	6
Stillington	Parishes of Stillington, Whitton Bishopton, Carlton, Redmarshall and Thorpe Thewles	1
Thornley	Thornley Colliery	1
Usworth	Usworth and Washington	1
Waldridge Fell & Chester Moor	Waldridge Colliery and Chester Moor	1
Washington	High Usworth and Washington Wards	1
Weardale	Westgate-in-Weardale, St. John's Chapel, and Wearhead	1
Witton-le-Wear	Witton-le-Wear, Hamsterley, Wear Valley Junction, Harperley, Etherley, and Toft Hill	1
Witton Park	Witton Park, Escomb, Witton-le-Wear (part), Pollards Lands	1
Wolsingham	Wolsingham	1
Wrekenton	Wrekenton, Eighton Banks, Springwell	1

GROUP II.

Areas served by Wholetime Midwives employed by the County Council.

District.	No. of Midwives employed. 31.12.46	District.	No. of Midwives employed. 31.12.46
<i>Urban Districts.</i>		<i>Rural Districts.</i>	
Durham	4	†Chester-le-Street	2
Hartlepool	3	Durham	5
†Jarrow	5	†Easington	15
Billingham	5	Lanchester	2
Bishop Auckland	6	Sedgefield	7
Blaydon	6	Sunderland	3
Boldon	3		
Brandon & Bysh.	4	†Relief Work	—
Chester-le-Street	3		
Consett	9		
Crook & Willington	5		
Felling ..	4		
†Hebburn	3		
†Hetton	3		
Houghton-le-Spring	5		
*Ryton	2		
†Seaham	6		
Shildon	4		
Spennymoor	4		
Stanley	4		
Tow Law	1		
*Washington	2		
Whickham	5		
			130

† Two vacancies exist in each of these areas.

* One vacancy exists in each of these areas.

The work of the district nurse-midwives, when acting as midwives or as maternity nurses, is inspected and supervised by the Superintendent of the County Nursing Association, who made 456 visits to midwives and patients during the year ; and the work of all other midwives practising in the county area is supervised by the County Supervisor of Midwives. During the year the County Supervisor made 1,148 visits to midwives and 520 visits to patients.

At the end of the year there were 22 independent midwives in practice. In addition, there were 46 practising midwives in maternity and public assistance hospitals, 64 midwives employed by district nursing associations included in the County Council's Scheme who notified their intention to practise and 3 working under district nursing associations not approved for midwifery under the County Scheme.

During the year 11,158 applications were received for the domiciliary services of the midwives appointed under the Act, 9,384 as midwife and 1,774 as maternity nurse.

The midwives requisitioned medical help on 4,729 occasions, and the following statement gives particulars as to the reasons for so doing :—

1.	Ante-natal examination—general	122
2.	Ante-natal examination—possible venereal disease	2
3.	Ante-natal examination—albuminuria	211
4.	Eclampsia, fits, convulsions—maternal	20
5.	Miscarriage	218
6.	Threatened miscarriage	146
7.	Ante-partum haemorrhage	180
8.	Post-partum haemorrhage	85
9.	Placenta praevia	20
10.	Retained or adherent placenta or membranes	126
11.	Contracted pelvis, disproportion between child and pelvic outlet	59
12.	Malpresentation	249
13.	Prolonged or delayed labour, uterine inertia	837
14.	Mammary inflammation, varicose veins, cardiac weakness, weakness during puerperium, etc.	111
15.	Stillbirth	7
16.	Ruptured perineum	1520
17.	Premature birth	125
18.	Rise in temperature	131
19.	Mental condition during pregnancy and parturition	11
20.	Feebleness of child. Illness of child	168
21.	Phimosis, tongue tie, suspicious eruptions on skin of baby, and umbilical conditions	40
22.	Marked congenital malformation	52
23.	Inflammation of child's eyes	136
24.	Condition of mother ill-defined	28
25.	Condition of baby ill-defined	19
26.	Midwife in attendance at another case	23
27.	Precipitate labour	1
28.	Death of baby	5
29.	Other conditions	77

In addition to the notifications of sending for medical help, the following notifications were received from midwives :—

Stillbirths	216
Death of mother	18
Death of child	127
Artificial feeding	199
Laying out the dead	25
Liability to be a source of infection	76

With regard to the 131 cases in which medical help was requisitioned on account of rise of temperatures, 29 were subsequently notified as puerperal pyrexia. 18 of these cases received in-patient hospital treatment under the County Scheme.

Of the 136 cases of inflammation of the eyes, 49 were notified as ophthalmia neonatorum and 18 received hospital treatment.

Very great difficulty was experienced throughout the year in carrying out the domiciliary midwifery service efficiently owing to shortage of staff, and if houses or suitable lodgings for midwives could be obtained much of this could be overcome.

Arrangements were continued during the year for the training of county midwives in gas and air analgesia, and up to the end of the year 72 midwives had received the necessary training. Difficulty has been experienced by the midwives in the transport of the apparatus because of its weight but it is hoped that this will be eliminated in the near future.

Post-graduate lectures were given to county midwives in March by Mr. Burke, Sunderland, and Dr. J. Robertson, Newcastle. The County Council agreed to pay the travelling expenses and tuition fees for ten midwives who wished to attend post-graduate courses arranged by the College of Midwives.

MATERNITY HOME ACCOMMODATION.

Maternity Homes and Hospitals.—The following table gives the number of patients admitted into maternity homes and hospitals from the maternity and child welfare portion of the administrative county area during the past five years :—

TABLE 11.

Maternity Home or Hospital	Number of Cases Admitted.				
	1942	1943	1944	1945	1946
County Maternity Home, Bishop Auckland	341	328	364	342	363
*Richard Murray Hospital, Blackhill	227	385	399	348	74
Princess Mary Maternity Hospital, Newcastle	932	1042	1100	1004	1,406
Sunderland Municipal Hospital...	102	94	63	115	156
Grantully Maternity Home, West Hartlepool	13	9	27	34	28
Hardwick Hall Maternity Home, Sedgfield	505	410	481	515	663
†Croxdale Hall Maternity Home near Durham	—	—	—	—	211
Dilston Hall Emergency Home, Corbridge	49	121	79	93	90
Harton Hospital, South Shields	135	143	158	141	142
Municipal Hospital, Darlington ..	26	34	54	66	44
Newcastle General Hospital	—	2	—	—	—
Hartlepoons Hospital	18	49	35	40	27
Bensham General Hospital	—	52	21	51	33
Danesfield Maternity Home, Jarrow	—	—	60	76	43
‡Queen Elizabeth Hospital Gateshead	—	—	—	—	58
Totals	2348	2669	2841	2825	3338

* Ceased to admit cases as from April, 1946.

† Cases admitted from January, 1946.

‡ Previously included in Bensham General Hospital figures.

Accommodation for maternity cases is provided at three public assistance hospitals, i.e., at Bishop Auckland and Easington for normal cases and at Durham for cases complicated by venereal diseases. The demand for maternity beds continues to be high, and the following table shows the number of beds available and the cases admitted during 1946. It will be observed that one emergency confinement took place at the Houghton-le-Spring hospital.—

TABLE 12.

Name of Institution.	No. of Beds in Institution (Exclusive of Isolation and labour beds).	No. of Cases admitted during the year.	Average duration of stay.	No. of Cases delivered by		No. of cases in which medical assistance was sought by Mid-wife	No. of Maternal Deaths
				(a) Doc-tors.	(b) Mid-wives.		
Bishop Auckland	*3	109	10 days	19	90	4	—
Durham	2	5	62 „	1	4	2	—
Easington	3	31	14 „	4	27	4	—
Houghton-le-Spring	—	1	14 „	—	†1	—	—
Totals	8	146	—	24	122	10	—

*Additional side wards were used as required.

†Stillborn.

St. Monnica's Home, Bishop Auckland.—Thirty girls were admitted to this Institution during the year and 28 babies were born. 30 girls were discharged. 10 girls and 7 babies were in the Home at the end of the year.

Cases of Abortion.—Arrangements were continued during the year whereby a small number of beds in the Bishop Auckland and Chester-le-Street public assistance hospitals are available for these cases, while arrangements were made during the year for the admission of a small number of cases to the Dryburn Emergency Hospital, Nr. Durham.

MATERNITY AND CHILD WELFARE.

Staff.—The staff at the end of the year consisted of one senior welfare medical officer and 18 whole-time (2 of whom also act as district medical officers of health) and 3 part-time assistant welfare medical officers.

Centres.—Of the 78 centres, 19 are held in premises owned or wholly rented by the County Council, while the remainder are held in church halls, etc., on a rental basis. Table 13 shows the aggregate attendances at the welfare centres during the year and Table 14 the attendances at each welfare centre.

TABLE 13.

	Babies and Children's Sessions.			Ante-Natal Sessions.
	Under 1 year.	1 and under 3 years.	3 and under 5 years.	
No. on books	8,034	9,591	4,262	13,807
Attendances	63,896	24,027	7,494	61,662
Average attendances per session	16	7	2	16
Consultations	54,146	20,998	6,778	61,476
Average consultations per session	15	6	2	16

Compared with 1945 this shows an increase in the number on the books of 2,829 expectant mothers; 1,159 children under 3 years and 358 children 3-5 years.

The following statement gives the attendances of mothers from the county maternity and child welfare area at centres outside the area :—

	Mothers Attendances.	
Darlington	60	294
Gateshead	14	31
South Shields	26	126
Stockton	29	87
Sunderland	87	313
West Hartlepool	40	262
Yarm and Eaglescliffe	30	49
Totals	286	1162

Ante-Natal Clinics.—During the year 13,557 expectant mothers attended the clinics, which is an increase of 2,955 compared with 1945, and the following is an analysis of some features of these cases.

CENTRES.

CENTRES.	No. on Books.				Attendances.				Consultations.											
	Children				Mothers				Children				Mothers							
	Under 1 year	Between 1-3 years	Between 3-5 years	Expectant	Under 1 year	Between 1-3 years	Between 3-5 years	Expectant	Under 1 year	Between 1-3 years	Between 3-5 years	Expectant	Under 1 year	Between 1-3 years	Between 3-5 years	Expectant				
Annfield Plain	325	154	158	58	1462	1208	405	114	21	25	8	3	1461	1117	374	107	21	24	8	2
Barnard Castle	72	88	95	63	270	591	325	125	11	14	8	3	270	469	238	100	11	11	6	2
Belmont	109	74	78	38	531	557	241	44	20	22	10	2	530	526	229	43	20	21	9	2
Billingham	286	171	217	108	1184	1670	477	200	22	17	5	2	1184	1246	365	178	22	13	4	2
Birtley	277	184	146	77	1251	1105	300	128	14	24	7	3	1250	820	234	110	14	21	7	3
Bishop Auckland	471	143	199	152	2569	1385	642	397	25	15	7	4	2562	1151	536	336	25	14	6	3
Blackhall	128	113	196	168	560	1016	452	239	17	10	5	2	560	967	443	235	17	10	5	2
Blaydon	171	92	120	56	910	768	334	117	19	17	7	3	910	618	274	103	19	16	7	3
Boldon	131	84	84	17	561	724	231	131	36	14	6	1	560	649	205	34	14	18	6	1
Brandon	267	152	177	86	1331	1107	485	168	21	15	7	2	1322	1016	456	158	21	15	7	2
Burnhope	50	21	43	7	187	293	110	14	8	12	4	1	187	240	100	12	8	10	4	1
Burnopfield	91	67	75	25	472	626	213	39	18	24	8	2	450	555	174	34	18	23	7	2
Butterknowle	29	21	38	17	64	158	115	50	3	6	5	2	63	156	108	46	3	6	5	2
Castletown	74	55	67	37	385	326	173	44	16	14	8	2	382	301	158	39	16	13	7	2
Chester-le-Street	499	289	300	151	2356	2081	670	230	16	19	6	2	2330	1574	525	194	16	18	6	2
Chilton	93	62	57	26	495	478	174	61	19	18	7	2	473	439	167	55	19	18	7	2
Chopwell	199	104	173	83	987	946	440	125	21	20	9	3	987	937	437	125	21	20	9	3
Cockfield	35	36	40	19	77	194	113	40	3	8	5	2	77	193	111	40	3	8	5	2
Consett	456	271	352	192	2136	2545	990	280	22	17	7	2	2136	1996	772	248	22	17	7	2
Coundon	184	89	117	50	708	588	228	99	20	13	5	2	705	574	227	97	20	13	5	2
Coxhoe	231	172	162	48	926	1192	344	76	18	16	5	1	926	914	264	59	18	16	5	1
Craghead	106	55	65	26	434	493	97	41	17	19	4	1	434	491	97	41	17	19	4	1
Crook	212	138	173	94	937	947	451	149	19	19	8	2	937	826	411	143	19	17	8	2
Dunston	271	136	156	71	1387	969	357	120	27	20	8	3	1384	851	335	116	27	19	8	3
Durham	380	164	186	63	1736	1357	495	128	23	19	7	2	1732	1127	408	111	23	19	7	2
Easington	330	165	181	77	1797	1073	333	102	20	21	7	2	1796	858	284	90	20	19	6	2
Eldon	166	55	88	42	716	430	278	98	29	9	6	2	716	408	262	93	29	9	6	2
Esh Winning	137	88	131	62	529	641	319	143	11	13	6	3	529	490	254	114	11	13	6	3
Felling	389	154	207	51	1471	1109	382	81	20	17	8	2	1471	1055	344	72	20	16	7	2
Ferryhill	302	177	183	67	1531	1750	469	117	26	24	7	1	1531	1411	388	107	26	23	6	1
Fishburn	51	29	50	19	231	290	206	56	10	13	9	2	224	267	180	50	10	12	8	2
Grange Villa	159	95	134	32	757	803	380	48	15	16	8	1	757	670	321	42	15	16	7	1
Haverton Hill	136	116	149	74	501	989	337	171	19	13	4	2	501	732	285	150	19	10	4	2
Hebburn	307	194	227	70	1611	1845	565	132	21	20	6	2	1611	1675	511	129	21	19	6	2
Hetton	267	130	181	79	990	986	386	122	20	20	8	3	989	831	348	118	20	19	8	3
Horden	179	150	186	77	793	1128	357	105	20	11	4	1	793	1013	332	100	20	11	4	1
Houghton-le-Spring	313	178	195	110	1207	1337	565	186	16	17	7	2	1206	1213	529	179	16	17	7	2
Lanchester	54	34	37	6	228	315	70	9	9	13	3	—	221	305	68	9	9	12	3	—
Langley Park	108	55	77	25	496	513	202	37	20	20	8	2	495	429	178	32	20	18	8	2
Marley Hill	43	35	52	26	187	476	196	133	7	19	8	4	82	146	207	94	3	6	8	4
Middleton-in-Teesdale	25	21	53	22	82	153	215	104	3	6	8	1	179	399	165	27	7	17	8	1
Murton	250	153	168	73	961	841	218	65	12	12	4	1	950	738	203	63	12	11	3	1
New Herrington	240	141	159	60	859	1225	390	104	19	26	8	2	869	1107	345	90	19	25	8	2
Rowlands Gill	150	98	127	55	796	823	346	103	15	16	7	2	796	694	307	101	15	14	6	2
Ryhope	180	87	90	32	646	622	217	68	14	12	4	1	641	441	165	46	14	11	4	1
Ryton	251	137	202	75	1201	1249	421	105	13	13	4	1	1201	929	343	104	13	10	4	1
Sacriston	191	123	134	38	840	897	340	52	17	18	7	1	838	826	311	46	17	16	6	1
Seaham Harbour	577	293	256	97	2005	2052	441	122	16	22	5	2	1998	1434	349	107	16	19	4	2
Sedgefield	76	49	81	34	292	446	335	89	6	10	7	2	292	381	259	81	6	8	5	2
Sherburn Hill	83	60	63	25	359	494	121	31	15	20	5	1	358	485	121	31	15	20	5	1
Shildon	226	92	111	64	1089	799	478	119	22	17	10	3	1087	642	389	95	22	16	10	3
Shotley Bridge	69	107	103	53	323	855	462	141	14	16	9	2	323	855	462	141	14	14	9	2
Shotton	181	114	155	60	745	1115	328	83	15	22	7	3	745	891	289	68	15	16	7	3
Silksworth	181	136	149	47	830	1228	292	69	18	24	6	1	829	1081	338	66	18	15	5	1
South Hetton	63	47	52	17	328	369	109	22	14	15	4	1	328	369	109	22	14	15	4	1
South Hyton	60	52	57	19	303	374	113	49	13	15	5	2	303	360	113	49	13	15	5	2
South Moor	144	84	101	26	637	628	174	37	26	25	8	2	636	614	168	37	26	24	7	2
Spennymoor	405	199	175	38	1967	1308	265	56	21	26	5	2	1967	957	212	49	21	23	5	2
Standrop	18	26	41	36	42	118	130	91	2	6	7	5	42	117	127	86	2	6	6	5
Stanhope	7	13	21	15	9	67	70	30	1	3	3	2	9	67	69	30	1	3	2	2
St. John's Chapel	10	15	22	17	23	97	58	66	1	4	2	3	23	87	55	62	1	4	3	3
Swalwell	92	50	74	30	338	420	250	44	14	17	10	2	338	351	218	41	14	14	9	2
Tanfield Lea	84	45	50	24	297	324	130	41	12	13	5	2	297	257						

Duration of Pregnancy at first attendance.

Under 3 months	2,409
3-6 months	8,099
6-9 months	3,049

13,557
Age of Patients.

Under 20 years	756
20-25 years	5,271
26-30 years	3,806
31-35 years	2,328
36-40 years	1,158
41-45 years	229
46-50 years	9

13,557
Number of Pregnancy.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
6,050	3,677	1,824	903	430	279	135	96	64	49	25	13	4	3	3	1	1
Total :—13,557																

History of Previous Confinements.

Normal	13,272
Abnormal	1,129
Instrumental	1,625
Induction	62
Caesarean	49
	<hr/> 16,137

Full Term	13,650	{ 1 set of triplets 63 sets of twins. (4 sets of twins). (15 sets of twins). (2 sets of twins).
Still Births	490	
Premature	753	
Abortions	1,244	
	<hr/> 16,137	

Health of Mothers.

Poor.	Moderate.	Good.	Total.
611	3,173	9,773	13,557

Results of Confinements.

(a) Normal	7,830
Abnormal	289
Instrumental	634
Induction	64
Caesarean	60
Undelivered	5
Other Complications	44
Removed	438
Not yet delivered	4,193
	<hr/> 13,557

Full Time	8,341	{ 1 set of triplets.
		{ 92 sets of twins.
Premature	316	(15 sets of twins).
Still Births	237	(4 sets of twins).
Abortions	142	(2 sets of twins).
Undelivered	5	

9,041

(b)

County Maternity Home	310
Richard Murray Hospital	42
Princess Mary Maternity Hospital	705
Hardwick Hall Maternity Home	519
Croxdale Hall Maternity Home	163
Public Assistance Hospitals	103
Other Maternity Homes and Hospitals	451
Doctor	43
Midwife	5,417
Doctor and midwife	1,007
B.B.A.	166
Removed	438
Not yet delivered	4,193
	<hr/>
	13,557
	<hr/>

The following diseases and conditions were those most usually found in the patients who came for ante-natal examination :—

Anaemia	2,360	Albuminuria plus raised	
Vomiting	2,186	blood pressure	321
Dental caries	3,833	Albuminuria	338
Cardiac	772	Venereal disease	37
Non-venereal discharge	2,456	Varicose veins	2,620
Placenta praevia	11	Haemorrhoids	1,064
Respiratory disease	309	Constipation	3,359
Malpresentation (rectified)	288	Toxic ante-partum	
Tuberculosis	116	haemorrhage	101
Raised blood pressure	760	Some degree of pelvic	
		contraction	643
		Other conditions	1,463

Post-Natal Clinics.—Three new post-natal clinics were opened and one was closed during the year, making a total of 28 at the end of the year. Table 15 shows the numbers of mothers on the books and the attendances made by them. The number of mothers on the register showed an increase of 176 and the number of attendances 151 compared with 1945. In addition, 250 mothers were examined at the ante-natal clinics compared with 376 in 1945.

TABLE 15.

Post-Natal Clinics.—No. on Books and Attendances. 1946.—

Centre.	No. of mothers on books.	No. of Attend- ances.	Centre.	No. of mothers on books.	No. of Attend- ances.
*Annfield Plain	9	9	Easington	79	123
Billingham	58	113	Felling	25	51
Birtley	23	40	Ferryhill	45	59
Bishop Auckland	174	260	Hebburn	80	137
Blackhall	45	73	Horden	46	56
Blaydon	46	99	Houghton-le-Spring	124	155
†Brandon	35	49	Rowlands Gill	12	13
Chester-le-St.	85	310	†Ryton	17	21
Chopwell	50	78	Seaham Harbour	50	56
Consett	154	343	South Moor	37	55
Coundon	24	40	Washington	152	258
†Coxhoe	45	62	West Auckland	23	34
Crook	57	70	West Stanley	43	104
Dunston	45	72	Winlaton	45	65
Durham	83	205			
			Totals.	1711	3010

* Closed 1.3.46.

† Opened in February, 1946.

Birth Control Clinics.—Birth control advice is now available at 19 centres compared with 16 in 1945. Table 16 shows the number of mothers on the books and the attendances made by them. The number of mothers on the register showed an increase of 149 and the number of attendances 286 compared with 1945.

TABLE 16.

Birth Control Clinics.—No. on Books and Attendances. 1946.—

Centre.	No. of mothers on books.	No. of Attend- ances.	Centre.	No. of mothers on books.	No. of Attend- ances.
Billingham	38	78	Durham	67	149
Birtley	30	51	Easington	29	47
Bishop Auckland	43	79	Felling	66	76
Blackhall	15	20	Horden	6	8
Blaydon	89	203	Houghton-le-Sp.	59	107
Chester-le-St.	63	119	Rowlands Gill	28	34
Consett	74	177	†Ryton	24	33
*Coxhoe	9	16	Seaham Harbour	41	49
Dunston	46	87	Washington	37	66
			†West Stanley	35	68
			Totals	799	1467

* Opened in April, 1946.

† Opened in February, 1946.

† Opened in January, 1946.

Dental Clinics.—The number of clinics remained unchanged at 12. The work done in these clinics is shown in Table 17.

TABLE 17.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Dental Treatment.

Clinic.	No. of Patients Treated Mothers.	No. of Patients Treated Children.	No. of Attendances made by Mothers.	No. of Attendances made by Children.	Extrac- tions.			Scal- ings.		Fill- ings.		Dentures for Mothers.				Other Treat- ment or advice.		Fees Received. £ s. d.	Number of Attendances of Dentist.
					For Dentures Mothers	Casual		Mothers	Children	Mothers	Children	Full Upper	Full Lower	Partial Upper	Partial Lower	Mother	Children		
						Mothers	Children												
Birtley	35	14	59	14	94	45	23	—	—	—	—	5	2	—	—	15	2	34 12 9	13
Bishop Auckland	66	20	130	28	206	62	41	4	—	26	7	3	2	—	—	28	14	22 13 6	24
Blaydon	45	15	60	15	48	71	19	—	—	—	—	7	4	—	—	12	1	41 8 9	12
Consett	48	15	50	15	40	16	2	—	—	—	—	—	—	—	—	33	13	12 3	11
Durham	77	22	112	22	272	73	26	1	—	—	—	11	5	4	4	14	6	51 1 9	22
Felling	33	5	42	5	20	47	7	—	—	—	—	3	2	—	—	1	1	18 8 3	12
Hebburn	29	8	29	8	—	58	10	—	—	—	—	—	—	—	—	—	2	2 4 0	11
Horden	48	11	94	14	88	28	23	—	—	—	—	13	11	1	—	34	2	85 5 0	13
Houghton-le-Spring	84	20	153	20	154	51	24	7	—	—	—	10	11	1	—	43	6	116 10 0	22
Seaham Harbour	65	10	102	10	173	45	23	3	—	2	—	11	8	1	1	3	—	59 14 9	12
Trimdon	28	3	40	3	35	32	3	1	—	—	—	5	5	—	—	14	1	36 4 0	10
West Stanley	47	7	47	8	140	49	15	—	—	—	—	5	6	3	1	—	—	25 14 3	11

Ultra-Violet Ray Clinics.—Owing to the difficulties of staffing only two new lamps have been installed during the year. Other requests for permission to purchase and install lamps by the voluntary committees have had to be refused. Table 18 gives details of treatment given at each clinic during the year.

TABLE 18.
Ultra-violet-Ray-Clinics, 1946.

Centre.	No. of Patients treated	No. of Treatments given.	Average per Session.	No. of Sessions held.
Annfield Plain	196	1684	23	73
Billingham	341	4180	48	88
Birtley	236	2676	27	98
Bishop Auckland ..	333	4979	51	97
Blaydon	337	3745	39	96
Boldon	99	1368	15	93
Chester-le-Street	378	5064	52	97
*Chopwell ..	46	251	25	10
Consett	384	3956	45	88
Coxhoe ..	198	2767	34	81
†Crook ..	210	2404	36	67
Dunston ..	232	2796	28	99
Dunston—Kromayer ..	10	65	2	42
Durham	340	4316	44	98
Felling	243	2943	30	99
Hebburn	236	2499	30	84
Hetton	189	2581	26	99
Horden	280	4179	41	101
Houghton-le-Spring ..	272	3236	33	98
Seaham Harbour ..	270	2608	26	101
Shotton	343	4618	48	97
Silksworth ..	185	1570	19	82
Spennymoor ..	200	2875	29	98
Washington ..	286	3736	38	98
West Stanley.....	268	2839	38	75
Totals ..	6112	73935	34	2159

†Opened May, 1946.

*Opened November, 1946.

E. F. Peile Home, Shotley Bridge.—During the year 125 mothers, 133 babies, and 205 children were admitted. The average duration of stay of these cases was 20 days for mothers and babies and 32 days for children.

Dental treatment was provided at the Home as follows.—

No. of sessions	24
Attendances made by mothers	126
Attendances made by children	153
Attendances made by staff	1
Extractions for mothers	61
Extractions for children	1
Extractions for staff	1
Scalings for mothers	23
Examinations for mothers	95
Examinations for children	153

Cases of Squint.—Treatment was provided for 229 children or 8 more than in 1945.

Prevention of Deafness.—Under this arrangement 41 children were examined and treated compared with 21 in 1945.

Orthopaedic Treatment.—Five children had assistance towards the cost of appliances, which is one more than in 1945.

County Federation of Voluntary Workers.—Four meetings were held during the year in the Shire Hall, Durham. Thirty-four mothers had treatment under the convalescent scheme organised by this Federation. The sum of £69 14s. 0d. was subscribed to the fund by the voluntary committees of the welfare centres.

Nurseries.—In April, 1946, nine wartime nurseries were taken over by the County Education Committee as nursery schools, while the nurseries at Birtley, Bishop Auckland, Haverton Hill, and Hebburn were taken over by the County Health Committee, the first two as 24-hour nurseries and the last two as day nurseries.

Specialist Clinics.—The specialist consultation clinics which were opened in December, 1945, at the Houghton-le-Spring and Horden welfare centres continued to be held monthly at each centre.

Care of Illegitimate Children.—The Durham Diocesan Moral Welfare Association acquired the use of 'Ramside,' Belmont, Nr. Durham City, as a hostel for mothers and babies, during the year, but it had not been possible to open the hostel by the end of the year. The County Council have approved the payment of an annual grant to the Association, and they also agreed to the payment of a sum towards the cost of the provision of furniture and equipment.

CARE OF PREMATURE INFANTS.

The total number of infants recorded as weighing 5½-lbs. or less at birth during the year in the welfare area of the County Council was 747 and of this number 571 were born at home and 176 in hospital. The total live births registered in this area was 15,767, the premature birth notifications being equal to 4.7 per cent.

During the year 223 deaths of prematurely born babies were registered, 170 under one week, 40 under one month, 12 under three months, and 1 under six months. In 56 cases, death occurred in hospital.

In accordance with the recommendations of the Ministry of Health the County Council provides special cots, hot waterbottles woollen shawls, blankets and clothing, while cotton wool, olive oil and belcroy feeders are also supplied. Few requests were received during the year for this equipment.

Where a premature birth occurs in the practice of a midwife she devotes a considerable amount of her time to it and attends as long as is necessary. In some cases it has been necessary to continue attendance up to six weeks. The results from home nursing have again been good.

No premature babies born at home have been admitted to special hospital units.

EMERGENCY MATERNITY SERVICE.

Arrangements continued unchanged throughout the year. The 'flying-squad' was requisitioned on 25 occasions and the services of consultants were obtained in respect of 19 patients.

MATERNAL MORTALITY.

Table 19 gives the maternal mortality rate in the administrative county during the past ten years :—

TABLE 19.

ADMINISTRATIVE COUNTY OF DURHAM.—Maternal Mortality—
1937-1946.

Year	Births Regis- tered (Live and Still)	Deaths from Puer- peral Sepsis	Rate Per 1,000 births Regis- tered	Deaths from other accidents and diseases of pregnancy and Parturition.	Rate per 1,000 births Regis- tered	Total Maternal Mortality Rate per 1,000 births registered
1937	15,844	18	1.14	57	3.60	4.73
1938	15,713	27	1.72	61	3.88	5.60
1939	15,418	26	1.69	51	3.31	4.99
1940	15,380	14	0.92	51	3.31	4.23
1941	14,969	15	1.00	53	3.54	4.54
1942	15,236	19	1.25	38	2.50	3.74
1943	15,631	11	0.70	48	3.07	3.77
1944	17,730	16	0.90	29	1.64	2.54
1945	16,202	8	0.49	37	2.28	2.78
1946	19,047	9	0.47	41	2.15	2.62

For the purpose of the Ministry of Health inquiry 36 maternal deaths were investigated during the year.

The following is an analysis of some features of these.

Ages—Under 20	Nil.
20-29	9
30-39	23
40-45	4—36

Parity

1	2	3	4	5	6	7	
11	7	7	3	4	2	2	— 36

Ante-Natal Care.

None	11	
Doctor	7	
Midwife	8	
Doctor and midwife	1	
Doctor and ante-natal clinic	2	} 9 attended A.N.C. at least once.
Ante-natal clinic and hospital	3	
Midwife and ante-natal clinic	4	
		—36

10 mothers were seen by a consultant during pregnancy.

Previous Health.

Pre existing disease	19		
Moderate	4		
Stated to have been good	5		
Not known	8	—	36

Causes of death.

Cardiac disease	9		
Embolus	4		
Eclampsia	3		
Sepsis	4		
Yellow atrophy of liver	2		
Shock after caesarean section	2		
Post-partum haemorrhage	1		
Anaesthetic	2		
Epilepsy	2		
Ruptured ectopic pregnancy	2		
Tetanus	1		
Hyperemesis	1		
Appendicitis	1		
Ruptured uterus	2	—	36

Results.

Full time live births	6		
Full time still-births (one twin)	8		
Premature live births	2		
Premature still-births	6		
Undelivered	7		
Abortions	8	—	37

PUERPERAL PYREXIA.

There were 71 cases of puerperal pyrexia notified during the year compared with 73 during 1945. Nine deaths were registered from puerperal sepsis compared with 8 in the previous year. 45 cases were admitted to hospitals under the County Scheme and the services of consultants were utilised in 11 cases.

OPHTHALMIA NEONATORUM.

TABLE 20.

Cases.				Vision un- im- paired	Vision im- paired	Total Blind- ness.	Re- moved No Report	Deaths	Under treat- ment at end of year
Notified M.&C.W. Area.	Treated								
	At Home	Hospital							
58	34	In- p'tient	Out- p'tient	57	Nil.	Nil.	Nil.	1	Nil.
		21	3						

The health visitors are instructed to make careful enquiries into all cases of inflammation of the eyes of newly-born children, and during the year, in addition to the 58 cases notified as ophthalmia neonatorum, they reported 599 such cases to which they paid 1,387 home visits.

The following details have been abstracted regarding these cases.—

Treatment.

No. of cases treated by own doctor	257
No. of cases treated by own doctor and district nurse	2
No special treatment	340

Hospital Treatment.

In-patients	3
Out-patients	26

Results.

Vision Unimpaired	593
Under treatment at the end of the year	6

All the cases receiving treatment at the end of 1946 cleared up satisfactorily.

GOVERNMENT EVACUATION SCHEME.

In accordance with Ministry of Health Circular 225/45, the care and supervision of certain child evacuees from London and other areas became the responsibility of the County Council.

After discussions with representatives of the Ministry the County Council decided that so far as children in private billets are concerned the arrangements suggested by the Minister of Health be carried out. Nine children remain billeted in the county and these are visited monthly by the health visitors.

The County Council agreed, at the request of the Ministry, to administer the hostel for difficult children at the Rectory, Wolsingham.

HEALTH VISITORS.

Notification of Births.—The County Council is the welfare authority for the administrative county with the exception of the municipal boroughs of Hartlepool, Jarrow, and Stockton, and in this area 15,556 live births and 443 stillbirths were notified while the numbers registered were 15,767 and 551 respectively. Of the notified births 12,108 were reported by midwives, 285 by doctors, 3,524 by maternity homes and hospitals and 82 by public assistance institutions. The health visitors paid first visits to 15,568 infants at home.

Child Life Protection.—At the end of the year 39 cases were under supervision. Generally speaking the standard of care continued to be good, the children feeling themselves to be members of the family.

Health Visitors' Training School.—Six of the nineteen students in training failed at the first examination, five were successful later, one has still to sit the examination.

Boarded-out Children.—As from August, 1946, the health visitors have supervised the children boarded-out in the county. Visits are paid at least once a quarter.

Deaths from Pneumonia and Bronchitis of Children under 5 years.—A total of 291 deaths from these causes was investigated ; 192 were in urban areas of which 161 were under 12 months and only 16 of them had received special nursing attention at home and 33 in hospital. There were 99 in rural areas and of these deaths 78 were of children under 12 months and 12 received special nursing attention at home and 23 in hospital.

Home Helps.—During the year Home Helps were employed in respect of 86 cases, and they did good and useful work.

Domestic Helps.—During the year 20 Domestic Helps were employed part-time, remuneration being paid at the rate of 1/4d. per hour, based on a 48-hour week. Their work is supervised by the county health visitors and they are required to provide their own meals. Applicants for a domestic help are required to pay as assessed by the County Council.

Summary of Work Done by Health Visitors.—The work of the health visitors during the year ended 31st December, 1946, is summarised in Table 21.

TABLE 21.

DOMICILIARY VISITS.

Maternity and Child Welfare.—

Ante-Natal First visits	3,508
Revisits	2,173
Births First visits	15,568
Revisits to children under 1 year	38,154
" " " 1—2 years	29,294
" " " 2—3 "	26,520
" " " 3—4 "	23,290
" " " 4—5 "	26,246
" " " 5—6 "	274
Visits to Child Life Protection Cases	466
Other visits	5,912
Total	171,405

Tuberculosis.—

First visits	.....	.....	.....	.....	.....	.....	1,412
Revisits	.....	.....	.....	.....	.....	.....	15,858
Other visits	..	..	..	..	..	..	2,900
							<hr/>
			Total	.....	.....	.....	20,170

School Work.—

School Children (Home visits)	28,688
do. (School visits)	.....	.....	.....	1,450
				<hr/>
Total	.....	.....	.....	30,138

General Health:—

Visits re financial circumstances ..	1,892
--------------------------------------	-------

Mental Deficiency.—

Visits paid to mentally defective persons ..	6,321
--	-------

Ineffective visits	25,525
--------------------------	--------

Total number of visits	255,451
------------------------------	---------

Number of effective visits	229,926
----------------------------------	---------

Time (as days) spent on visits (routine, other and ineffective)	11,219
---	--------

Average daily number of effective visits per Health Visitor	21
---	----

Clinic, Etc., Work.—

Time (as days) spent :—

(a) at M. & C.W. centres	7,718
(b) at tuberculosis dispensaries	1,490
(c) at school head to head inspections	519
(d) at school clinics	382
(e) conducting children to special schools	43
(f) assisting with school medical inspection	1,050

Cases reported to district Medical Officers of Health.—

Overcrowding	121
Sanitary defects	361

PART TIME OFFICERS.—

Hartlepool Municipal Borough health visitors.—

No. of visits :—

School	34
Tuberculosis	363
Mental defectives	82
Time (as days) spent at dispensaries	94
„ „ „ „ „ school clinics	102
„ „ „ „ „ school medical inspection	22

NURSING HOMES.

During the year no applications were made to the County Council under section 194 of the Public Health Act, 1936, for the delegation of their powers to district councils. Twelve general and cottage hospitals were re-inspected during the year and granted exemption for a further period of one year. The maternity and nursing homes were periodically inspected.

REGISTERED NURSING HOMES.

<i>Name and address.</i>	<i>Description.</i>
St. Monnica's, 60 North Bondgate, Bishop Auckland.	Maternity.
West End, 1, Rosslyn Terrace, Stockton-on-Tees.	Maternity, Aged and Infirm
Barton House, Yarm Road, Stockton-on-Tees.	Maternity and General.
Rosemount, 32, Bede Road, Barnard Castle.	Maternity and General.
Percy House, Neville's Cross, Durham.	Aged, Infirm and Border- line Mental Cases.
12, South Bailey, Durham.	General, Chronic, Aged and Infirm.

GENERAL AND COTTAGE HOSPITALS
GRANTED EXEMPTION.

Hartlepoons Hospital.
 Sherburn Hospital.
 Stockton and Thornaby Hospital.
 Horden Cottage Hospital.
 Lady Eden Cottage Hospital.
 Whickham and District War Memorial Cottage Hospital.
 Durham County Hospital.
 Holmside and South Moor Miners' Welfare Hospital.
 Palmer Memorial Hospital, Jarrow.
 Ellison Hall Infirmary, Hebburn.
 Consett Iron Works Infirmary.
 Wayside, Boldon.

WATER SUPPLIES.

Samples have been taken for examination and the results submitted to those concerned for their consideration and action.

A Public Inquiry was held at West Hartlepool into the proposal of the Medical Officer of Health to make an order under Section 14 of the Water Act, 1945, defining areas which come under certain provisions of the Act. There was no opposition to the proposals.

RIVERS AND STREAMS.

Examination of samples taken from rivers and streams shows that, in the main, their condition could be classified as good. Special investigations were made in connection with some of the main rivers and streams as a result of complaints received. Pollution was mainly found to be due to breakdown of machinery, repairs to parts, improvements to works, heavy rainfall washing polluting matter from heaps, etc., and surface water drainage.

It was observed on one or two occasions that refuse was being dumped haphazardly into streams. Inspections were made in conjunction with the district sanitary inspector and effective action was taken to stop this unlawful practice.

River Don.—The Don is grossly polluted due to outfall sewers discharging sewage untreated into the tidal waters of this small stream. Remedial measures should be taken by the local authorities concerned, as the stream at this part is foul and nauseating and is a menace to public health.

River Wear.—Periodical samples and inspections of this river show that there is an improvement in the general standard. Pollution by the Wolsingham Sand and Gravel Works was investigated, but this should not recur as a settling tank has been installed for the settlement of solids in suspension.

River Tees.—Pollution of the Tees by deposits of whinstone dust from the washing plant of Forcegarth Quarries was reported. Several inspections were made and the management promised to construct proper concrete settling tanks, but these have not yet been constructed.

Penicillin Factory.—The staff of the Department of Scientific and Industrial Research are investigating the pre-treatment of the effluent from these works and it is understood that considerable success has been achieved, although the investigations are not yet completed.

River Skerne.—Routine monthly surveys of the River Skerne were made during the year and it can now be reported that the river is free from serious pollution.

Murton Beck.—This beck was fairly satisfactory at the beginning of the year, but towards the end further pollution occurred.

Bishopton Beck.—Pollution arose due to the sand and gravel works at Bishopton. Remedial measures were promised by the management.

Lumley Burn.—Pollution of the Lumley Burn was noticed on two occasions owing to defects in the precipitation tanks at Lambton Colliery. A new system of coal slurry wash water clarification has now been installed.

Black Dene Burn.—Pollution by the effluent from Kimblesworth Colliery was observed and the matter was brought to the notice of the management.

Routine inspections were made of the following.—*Rivers.*—Wear, Tyne, Tees, Browney, Gaunless, Deerness; *Becks.*—Brancepeth, Beechburn, Crook, Coundon, Oakley Cross, Old House, Old Durham, Murton, Tursdale, Wingate, Shiney; *Burns.*—Lumley, Rainton, Red, Black Dene, West, Hylton, Cong, Day.

DRAINAGE, SEWERAGE AND SEWAGE DISPOSAL.

In all parts of the county schemes for the provision of modern sewage disposal plants have been prepared and submitted to the Ministry of Health.

Public Inquiries have been held in the Barnard Castle Rural and Billingham Urban districts. Several new factories are in course of construction and the effluents have been under examination and investigation. Where necessary trade effluents will have to be pre-treated before being discharged to the councils' sewers. In all cases investigated the firms concerned have given their co-operation and are anxious to take all precautions to prevent pollution.

With the development and construction of factories many district councils will be requested to accept trade waste effluents into their sewers under the Public Health (Drainage of Trade Premises) Act, 1937, and provided adequate pre-treatment is undertaken by the factories concerned, this is the solution to the problem of rivers pollution prevention so far as local authorities and factories are concerned.

Permission to discharge their trade effluent into the council's sewers for suitable treatment was given by Boldon Urban District Council.

Detailed inspection and survey of sewage purification works was carried on during the year. Defects were reported to the appropriate local authorities and remedial measures were taken.

New sewage disposal works were put into commission at Tyne Dog Military Camp, Wardley ; High Dyke ; and Evenwood.

Modern coal slurry wash water clarification plants have been installed at the Bowburn, Lambton, Margaret and Philadelphia collieries and at the Nicholson Pyrites mine.

Pithead Baths and Canteens.—No nuisances have arisen from effluents from these premises and a strict watch has been kept at the points where the effluents have been discharged into rivers and streams. In many cases they are discharged into the district councils' sewers after treatment.

RURAL WATER SUPPLIES AND SEWERAGE ACT, 1944.

Under the provisions of the above Act, the following schemes were submitted to the County Council during the year for their observations in accordance with the provisions of section 2(2) of the Act.—

Estimated cost.

(a) Boldon Urban District—Sewerage scheme £ 54,000
calculated on 1939 prices.

(b) Barnard Castle Rural District.—
Provision of water supplies.

Estimate of Probable cost
cost based on after adding
1939 figures. 60% in excess
of 1939
figures.

	£	£
Bolam	1,200	1,920
Hilton and Morton Tinmouth	2,400	3,840
Cockfield	5,800	9,280
Upper Teesdale	35,000	56,000

Estimated cost
£

(c) Darlington Rural District.—
Water supply scheme 4,624
Sewerage scheme 67,657

(d) Durham Rural District.—
Croxdale and Sunderland Bridge sewerage 7,440
Kelloe water supply 2,990

(e) Easington Rural District.—
Piped water supply to farms 4,155
Sewerage scheme 2,800

(f) Lanchester Rural District.—
Water supply scheme 11,232

(g) Sedgfield Rural District.—
Water supply schemes 32,360

(h) Stockton Rural District.—
(i) Water supply scheme 7,460
(ii) Sewerage scheme 15,020
(iii) Water supply scheme (Parishes of Bishopston
and Elton) 3,752
(iv) Water supply and sewerage scheme 32,071

(i) Sunderland Rural District.—
Water supply scheme 598.15.6

On the reports of the county officers concerned the County Council were of the opinion that the above schemes were necessary and urgent and, as the proposals were generally of a satisfactory character, gave their approval.

MILK AND DAIRIES ACTS AND ORDERS.

The approximate number of registered dairy herds in the administrative county during the year was 2,597.

In 30 cases bulk samples of milk taken by local authorities were reported under the Milk and Dairies (Consolidation) Act, 1915, to contain tubercle bacilli. Investigations by the veterinary officers of the Ministry of Agriculture and Fisheries into the origin of tubercle bacilli in these samples necessitated visits to 30 farms and in 19 cases 26 tuberculous cows were detected and slaughtered under the Tuberculosis Order.

Throughout the year the veterinary officers of the Ministry of Agriculture and Fisheries paid 2,597 visits to farms under the Milk and Dairies Orders, which involved the examination of 48,285 animals. These inspections resulted in the slaughter of 42 tuberculous animals, which are included in the total number shown as having been dealt with under the Tuberculosis Orders. 98 cows were found to be affected with mastitis or some other pathological condition.

Under the Tuberculosis Order, 1938, the total number of animals slaughtered during the year on account of suspected tuberculosis was 216.

The following is a summary of the licences, as on the 31st December, 1946, issued for the production and sale of designated milk under the Milk (Special Designations) Regulations 1936 and 1946 :—

					Tuberculin Accredited Tested.	
Establishments at which the milk was bottled	.....	.....	.....	.....	40	56
Establishments at which the milk was not bottled	.....	.....	.....	.....	92	305
Totals					132	361

A total of 2,955 samples of milk was collected by officers of the County Health Department.

Table 22 shows the results of examination of samples of milk collected during the year.

It will be observed that in 3.5 per cent of the designated milk samples tubercle bacilli were found.

Samples of milk supplied to schools were submitted to bacteriological examination or chemical analysis and the pasteurisation establishments were visited periodically for sampling purposes.

Milk Assistance Scheme :—The number of families assisted under the scheme during the year was 4, while the number receiving assistance at the end of the year was 4, compared with 7 and 4 respectively in 1945.

TABLE 22.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Results of examinations of samples of milk collected by officers of the County Health Department.

Designation	No of samples collected.	Type of Examination								Examination for Tubercle Bacilli.				
		Methylene Blue		B. Coli.		Plate Count.		Phosphatase Test.		No. of Samples Ex' mind	Microscopic		Biological	
		Passed	Failed.	Passed	Failed	Passed	Failed	Passed	Failed					
Tuberculin Tested	472	385	60	23	4	—	—	—	—	—	—	—	—	
Accredited	2,186	1,259	151	125	36	—	—	—	—	615	6	409	7	193
Pasteurised.....	297	161	6	—	—	—	—	2	128	—	—	—	—	—
Non-designated	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	2,955	1,805	217	148	40	—	—	2	128	615	6	409	7	193

FOOD AND DRUGS ACT.

During the year 2,093 samples were analysed with the following results :—

No. of samples found to be genuine	1,883
No. of genuine samples below standard	37
No. of samples of doubtful quality	2
No. of samples of abnormal quality	—
No. of samples adulterated or below standard	60
No. of samples taken as Reference Samples	16
No. of samples taken as Appeal Samples	90
Percentage of milk samples found to be not genuine or below standard	7.1 %

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS
AND OTHER DISEASES.

Tables 23—30 inclusive give particulars of cases of infectious disease occurring during the year, the mortality from the principal infective diseases, and the numbers admitted to isolation hospitals.

	Smallpox.		Scarlet Fever.		Diphtheria		Acute Polio-Myelitis		Acute Polio-Encephalitis.		Measles.		Whooping Cough		0— 1— 3— 5— 10— 15— 25 and over Age Unknown TOTALS	0— 5— 15— 45— 65 and over Age Unknown	Para-Typhoid Fevers.		Enteric or Typhoid Fever.		* Puerperal Pyrexia		* Ophthalmia Neonatorum		Erysipelas		Pneumonia		Dysentery		Cerebro-Spinal Fever.		Acute Encephalitis Lethargica				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Numbers Originally Notified	—	—	641	864	362	493	4	3	—	—	3373	3515	1083	1222			13	11	10	4	—	69	38	28	105	117	614	454	36	33	73	36	1	—			
Final Numbers after Correction.																																					
0—	—	—	2	2	3	4	—	—	—	—	174	184	124	108			2	3	—	—	—	—	—	—	—	2	145	148	5	7	19	7	1	—	—		
1—	—	—	56	39	20	12	1	1	—	—	945	904	321	393			1	1	—	—	—	—	—	—	2	91	71	5	2	10	7	—	—	—	—		
3—	—	—	95	112	31	22	1	—	—	—	1006	1062	322	371			6	4	4	1	—	—	—	—	18	179	119	13	4	9	7	—	—	—	—		
5—	—	—	271	394	91	92	—	2	—	—	1197	1292	296	305			—	2	—	1	—	—	—	63	57	133	61	5	5	8	3	—	—	—	—		
10—	—	—	133	193	63	72	—	—	—	—	50	54	15	21			—	—	—	—	—	—	—	20	33	59	51	—	12	—	—	—	—	—	—	—	
15—	—	—	50	63	29	61	—	—	—	—	7	20	3	3			—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	
25 and over	—	—	11	28	14	43	1	—	—	—	5	5	2	12			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Age Unknown	—	—	1	—	—	—	—	—	—	—	2	6	—	6			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTALS	—	—	619	831	251	306	3	3	—	—	3386	3527	1083	1219			9	10	4	2	—	71	37	28	103	116	607	451	28	31	46	25	1	—	—	—	

*Age not specified.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Numbers of cases of infectious diseases after corrections in each Sanitary District.

	Smallpox	Scarlet Fever	Diphtheria	Para-typhoid	Enteric or Typhoid Fever excluding Para-typhoid	Puerperal Pyrexia	Ophthalmia Neonatorum	Erysipelas	Pneumonia	Malaria	Dysentery	Acute Polio- Encephalitis	Cerebro Spinal Fever.	Acute Encephalitis Lethargica	Acute Polio-Myelitis	Measles	Whooping Cough
URBAN DISTRICTS.																	
Durham Borough	—	2	11	—	—	1	—	—	9	—	—	—	—	—	—	49	21
Hartlepool Borough	—	62	3	1	1	1	1	—	1	—	—	—	—	—	—	254	—
Jarrow Borough	—	28	17	—	—	4	—	8	101	—	1	—	2	—	—	569	47
Stockton Borough	—	264	65	—	—	5	3	24	68	—	1	—	2	—	—	1101	273
Barnard Castle	—	7	5	—	—	—	—	—	—	—	—	—	—	—	—	5	—
Billingham	—	51	8	—	—	—	2	5	22	—	4	—	—	—	—	288	64
Bishop Auckland	—	40	4	—	—	4	2	16	24	3	—	—	2	—	1	54	124
Blaydon	—	49	22	—	—	1	—	7	19	1	6	—	3	—	—	144	112
Boldon	—	2	3	—	—	—	—	—	1	—	—	—	—	—	1	9	16
Brandon and Byshottles	—	27	10	—	—	—	—	1	1	—	—	—	—	—	—	31	46
Chester-le-Street	—	17	25	—	—	—	2	2	15	—	10	—	1	—	1	29	13
Consett	—	41	14	—	—	—	2	6	20	1	—	—	1	—	—	210	108
Crook and Willington	—	60	17	—	—	1	—	11	23	—	—	—	2	—	—	23	95
Felling	—	8	17	—	1	2	1	6	9	—	—	—	2	—	1	146	39
Hebburn	—	38	3	—	—	4	5	11	53	1	—	—	1	—	—	288	122
Hetton	—	18	4	—	—	1	3	4	51	—	—	—	6	—	—	169	83
Houghton-le-Spring	—	48	15	—	—	3	4	17	63	—	2	—	2	—	—	262	97
Ryton	—	6	11	—	—	—	3	3	5	—	—	—	—	—	—	43	8
Seaham	—	41	22	—	—	3	10	6	59	—	1	—	2	—	—	251	25
Shildon	—	21	7	—	—	1	2	7	25	—	—	—	1	—	—	17	20
Spennymoor	—	51	12	—	1	5	1	1	30	—	3	—	1	—	—	219	102
Stanley	—	43	37	10	—	5	—	12	90	—	9	—	2	—	1	622	251
Tow Law	—	3	—	—	—	—	—	2	4	—	—	—	—	—	—	4	43
Washington	—	16	11	—	—	—	—	4	13	—	6	—	—	—	—	53	10
Whickham	—	45	26	—	—	—	3	1	27	2	3	—	—	—	—	163	35
RURAL DISTRICTS.																	
Barnard Castle	—	32	3	—	—	1	1	1	10	—	—	—	1	—	—	52	9
Chester-le-Street	—	49	40	—	—	2	1	11	94	—	1	—	10	—	—	233	131
Darlington	—	20	10	—	—	1	2	—	7	—	—	—	—	1	1	4	7
Durham	—	27	17	—	1	5	5	7	28	—	—	—	4	—	—	96	48
Easington	—	123	77	4	—	6	6	14	64	—	4	—	14	—	—	892	78
Lanchester	—	11	5	1	1	3	—	5	9	—	—	—	2	—	—	153	25
Sedgefield	—	123	6	2	—	5	3	4	13	—	8	—	4	—	—	51	45
Stockton	—	20	9	—	—	—	—	2	11	—	—	—	1	—	—	31	7
Sunderland	—	32	21	—	1	4	3	16	78	—	—	—	1	—	—	397	116
Weardale	—	25	—	1	—	3	—	5	11	—	—	—	4	—	—	1	82
Administrative County	—	1450	557	19	6	71	65	219	1058	8	59	—	71	1	6	6913	2302

TABLE 25.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Corrected Number of certain Infectious Diseases notified and number removed to Isolation Hospitals in each sanitary district.

District	Est. Population 1946.	Small- pox		Scarlet Fever		Diph- theria		Enteric or Typhoid Fever and Para- Typhoid		Totals	
		No. Notified	Removed to Hospital	No. Notified	Removed to Hospital	No. Notified	Removed to Hospital	No. Notified	Removed to Hospital	No. Notified	Removed to Hospital
URBAN DISTRICTS.											
Durham	18,120	—	—	2	2	11	17	—	—	13	19
Hartlepool	15,780	—	—	62	34	3	3	2	2	67	39
Jarrow	27,230	—	—	28	36	17	37	—	—	45	73
Stockton	69,750	—	—	264	257	65	88	—	2	329	347
Barnard Castle	4,190	—	—	7	6	5	5	—	—	12	11
Billingham	22,460	—	—	51	53	8	19	—	—	59	72
Bishop Auckland	34,280	—	—	40	40	4	12	—	—	44	52
Blaydon	30,370	—	—	49	51	22	29	—	—	71	80
Boldon	15,850	—	—	2	3	3	7	—	—	5	10
Brandon & Bysh.	18,890	—	—	27	28	10	13	—	—	37	41
Chester-le-St.	17,820	—	—	17	18	25	29	—	—	42	47
Consett	36,760	—	—	41	33	14	13	—	—	55	46
Crook & Wlngtn	27,560	—	—	60	58	17	43	—	—	77	101
Felling	24,560	—	—	8	8	17	21	1	1	26	30
Hebburn	22,780	—	—	38	36	3	8	—	—	41	44
Hetton	18,970	—	—	18	17	4	4	—	—	22	21
Houghton-le-Sp.	28,490	—	—	48	49	15	15	—	—	63	64
Ryton	13,540	—	—	6	4	11	11	—	—	17	15
Seaham	24,990	—	—	41	39	22	26	—	—	63	65
Shildon	14,180	—	—	21	21	7	7	—	—	28	28
Spennymoor	18,710	—	—	51	48	12	12	1	—	64	60
Stanley	48,110	—	—	43	47	37	100	10	18	90	165
Tow Law	3,070	—	—	3	3	—	—	—	—	3	3
Washington	17,040	—	—	16	18	11	14	—	—	27	32
Whickham	22,250	—	—	45	44	26	31	—	—	71	75
RURAL DISTRICTS.											
Barnard Castle	16,430	—	—	32	28	3	4	—	1	35	33
Chester-le-St.	40,720	—	—	49	51	40	58	—	—	89	109
Darlington	9,382	—	—	20	10	10	9	—	—	30	19
Durham	32,110	—	—	27	26	17	31	1	1	45	58
Easington	79,600	—	—	123	65	77	141	4	7	204	213
Lanchester	14,490	—	—	11	11	5	5	2	1	18	17
Sedgefield	35,210	—	—	123	118	6	7	2	2	131	127
Stockton	7,456	—	—	20	5	9	6	—	—	29	11
Sunderland	23,430	—	—	32	32	21	21	1	—	54	53
Weardale	8,952	—	—	25	25	—	—	1	1	26	26
Administrative County	863,530	—	—	1450	1324	557	846	25	36	2032	2206

TABLE 26.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Notifiable Diseases. Cases, Admissions to Hospital and Deaths.

Diseases.	Cases	Cases admitted to Hospital.	Deaths.
Smallpox	—	—	—
Scarlet Fever	1,450	1,324	4
Diphtheria	557	846	17
Enteric and Para-Typhoid Fevers	25	36	1
Puerperal Pyrexia	71	36	9
Pneumonia	1058	88	407
Ophthalmia Neonatorum	65	11	—
Erysipelas	219	18	1
Cerebro Spinal Fever	71	103	2
Acute Encephalitis Lethargica	1	1	10
Acute Polio-Myelitis	6	5	} 2
Acute Polio-Encephalitis	—	—	
Malaria	8	2	—
Measles	6,913	38	14
Whooping Cough	2,302	15	25

TABLE 27.

ADMINISTRATIVE COUNTY OF DURHAM—Number of cases of certain Infectious Diseases notified, 1937-1946.

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	Mean of 10 years
Smallpox	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	3,341	3,540	1,441	1,121	989	1,972	2,341	1,722	1,413	1,450	1,933
Diphtheria	3,561	3,101	2,026	1,442	1,408	2,007	1,961	1,370	971	557	1,840
Enteric and Para- Typhoid Fevers	19	15	14	115	66	17	19	18	15	25	32
Puerperal Pyrexia	*17	168	140	97	88	94	77	75	73	71	90
Erysipelas	463	568	416	340	309	299	354	320	254	219	354
TOTALS	7,401	7,392	4,037	3,115	2,860	4,389	4,752	3,505	2,726	2,322	4,249
Attack Rate per 1,000 Living	8.4	8.4	4.6	3.7	3.4	5.3	5.9	4.3	3.3	2.7	5.0

*Puerperal Fever.

TABLE 28.
ADMINISTRATIVE COUNTY OF DURHAM—Deaths and Death-rate from the seven principal Infective Diseases, 1937 to 1946.

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	Mean of 10 years.
Estimated Population	886,200	884,000	878,800	849,470	837,870	820,800	812,000	822,100	828,340	863,530	848,311
Smallpox	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	19	19	9	2	3	1	5	1	1	4	6
Diphtheria	231	179	111	77	70	90	83	48	33	17	94
Enteric Fever	2	1	1	5	3	3	1	4	5	1	3
Measles	29	41	16	34	38	15	33	7	22	14	25
Whooping Cough	32	29	33	16	75	21	35	15	7	25	29
Diarrhoea, under 2 years	101	61	58	78	67	98	81	113	94	81	83
TOTAL DEATHS	414	330	228	212	256	228	238	188	162	142	240
Deaths per 1,000 Population	0.47	0.37	0.26	0.25	0.30	0.28	0.29	0.23	0.20	0.16	0.28

TABLE 29.

ADMINISTRATIVE COUNTY OF DURHAM.—Diphtheria Immunisation, 1946.—

District.	Child Population Mid—1946.		Live Births Registered.		Number and estimated percentage of mid—1946 Child Population immunised up to 31st December, 1946.				Number who completed a full course of primary immunisation during the year 1946.			Number who were given a reinforcing injection during the year 1946.
					Under 5		5—15		Under 5	5—15	Total	
					No.	%	No.	%					0—15
URBAN DISTRICTS.												
Durham	1,380	2,690	269	393	389	28	2,035	76	136	224	360	15
Hartlepool	1,390	2,840	341	426	587	42	1,646	58	131	22	153	16
Jarrow	2,380	4,550	508	630	1,317	55	2,750	60	468	53	521	127
Stockton	6,230	11,070	1,311	1,585	2,364	38	7,537	68	851	292	1,143	13
Barnard Castle	332	622	66	95	141	43	332	53	69	14	83	3
Billingham	2,000	3,950	434	515	1,279	64	3,478	88	408	66	474	595
Bishop Auckland	2,790	5,350	660	774	916	33	3,042	57	294	23	317	—
Blaydon	2,310	4,620	509	619	916	40	3,936	85	282	229	511	327
Boldon	1,150	2,440	245	305	303	27	31	1	236	1	237	—
Brandon and Byshottles	1,640	2,880	399	421	693	42	2,083	72	286	25	311	12
Chester-le-Street	1,380	2,650	317	401	589	42	1,836	69	229	158	387	634
Consett	3,110	6,130	694	751	1,510	49	4,779	78	464	133	597	220
Crook & W'ton	2,090	3,760	416	519	200	10	51	1	203	51	254	—
Felling	1,910	3,820	388	492	103	5	80	2	241	36	277	52
Hebburn	2,020	3,760	419	502	805	40	3,473	92	215	5	220	19
Hetton	1,620	3,090	377	365	501	31	2,338	75	148	18	166	13
Houghton	2,430	4,640	499	636	780	32	3,008	65	296	164	460	179
Ryton	1,050	1,950	238	252	527	50	1,604	82	201	6	207	13
Seaham	2,180	4,470	515	585	382	17	3,534	80	295	112	407	163
Shildon	1,150	2,220	231	296	230	20	846	39	91	18	109	—
Spennymoor	1,660	3,060	356	454	349	21	1,900	62	147	17	164	—
Stanley	3,860	7,200	862	975	1,240	32	3,564	50	518	94	612	52
Tow Law	270	490	53	75	60	2	239	49	21	1	22	—
Washington	1,370	2,880	314	332	515	38	1,853	64	241	27	268	—
Whickham	1,660	3,460	344	434	681	41	2,758	80	279	30	309	17
RURAL DISTRICTS.												
Barnard Castle	1,360	2,520	288	318	404	30	1,558	61	159	75	234	5
Chester-le-Street	3,260	6,250	748	875	2,529	78	5,059	81	516	618	1,134	655
Darlington	710	1,350	155	152	365	51	1,099	81	42	5	47	—
Durham	2,520	4,930	588	725	1,381	55	4,371	88	192	56	248	—
Easington	7,290	13,810	1,627	1,751	3,149	43	9,754	71	995	150	1,145	72
Lanchester	1,200	2,460	262	259	482	40	1,974	80	213	36	249	17
Sedgefield	2,740	5,250	652	677	947	35	4,591	87	301	65	366	410
Stockton	690	1,220	116	161	14	2	6	0.4	14	6	20	—
Sunderland	1,860	3,900	337	514	810	44	3,430	88	134	—	134	13
Weardale	630	1,260	101	144	264	42	1,013	80	95	17	112	—
ADMINISTRATIVE COUNTY	71,622	137,542	15,639	18,408	27,722	39	91,588	66	9,411	2,847	12,258	3,642

Diarrhoea and Enteritis (under 2 years of age).—The number of deaths registered was 81 compared with 94 in 1945. The death-rates for these two years were 0.09 and 0.11 respectively, while the rates per 1,000 births registered were 4.40 and 6.01 respectively.

Influenza.—The number of deaths registered was 80, equal to a death-rate of 0.09 per 1,000 population, compared with 64 deaths and a death-rate of 0.08 in 1945.

Scarlet Fever.—There were 1,505 notifications compared with 1,348 in 1945. The corrected figure for the number of cases was 1,450 compared with 1,413 in the previous year. The attack rate was again equal to 1.7 per 1,000 population. Four deaths were registered.

Diphtheria.—The number of notifications continued to decline, 855 cases being notified compared with 1,261 in 1945 and 1,559 in 1944. The corrected figure for the number of cases (557) is equal to a rate of 0.65 per 1,000 population. There were 17 deaths, which is half the number which occurred during 1945, giving a death-rate of 0.02 per 1,000 population and a case mortality rate of 3.05 per cent.

In accordance with Ministry of Health Circular 194/45 arrangements were made whereby from the 1st January, 1946, immunisation of children under 5 years of age would continue to be undertaken by the various district councils in the county in co-operation with that done at the child welfare centres. Birthday greeting cards, giving names, addresses, and times of opening, of the child welfare centres etc., are despatched daily from the County Health Department. A central register of all cases immunised is also kept in the County Health Department and a reciprocal arrangement exists between this Department and the district councils for the transfer of record cards. Reimbursement to the county district councils of the cost entailed in undertaking the work is made by the County Council.

Table 29, which has been compiled from the returns sent to the Ministry of Health by each district council, shows the work undertaken in connection with diphtheria immunisation.

Enteric Fever.—Notifications were received in respect of 14 cases of enteric fever and 24 cases of para-typhoid fever but the corrected figures were 6 and 19 respectively compared with 3 and 12 respectively in 1945. Only one death from enteric fever was registered compared with 5 in 1945. Ten of the 19 confirmed cases of para-typhoid occurred during August and September in the Stanley Urban District.

Measles.—There was a decrease of 2,372 in the number of cases notified during the year compared with the previous year. Of the cases notified 64 per cent. occurred in the last three months of the year. 14 deaths were registered during the year. The case rate was equal to 8.0 per 1,000 population, the death-rate 0.02 per 1,000 population and the case mortality rate 0.20 per cent.

Whooping Cough.—There were 2,302 cases compared with 1,086 in 1945. The case rate was equal to 2.7 per 1,000 population. 25 deaths occurred giving a death-rate of 0.03 per 1,000 population and a case mortality rate of 1.09 per cent.

Cerebro Spinal Fever.—The following table shows the incidence and mortality for the last ten years.

TABLE 30.

Year	Number of Cases	Number of Deaths	Case Mortality per cent.
1937	23	11	47.8
1938	31	16	51.6
1939	32	3	9.4
1940	184	40	21.8
1941	207	33	15.9
1942	145	27	18.6
1943	104	15	14.4
1944	58	12	20.7
1945	52	9	17.3
1946	71	2	2.8

CANCER ACT, 1939.

The County Council is a member of the "North of England Joint Cancer Committee" which was constituted in accordance with the provisions of Section 91 of the Local Government Act, 1933. Details of the provisions made by the Committee to secure that the facilities for the treatment of persons suffering from cancer are adequate for the needs of the area were given in the report for the year 1945.

Table 31 gives comparative statistics in respect of cancer mortality for this administrative county and England and Wales for the past ten years. Table 32 gives the number of cancer deaths in each sanitary district during 1946 tabulated to show the organs affected together with the sex and age periods.

TABLE 31.

YEAR.	DURHAM COUNTY.		ENGLAND AND WALES.	
	Deaths	Death-rate	Deaths	Death-rate
1937	1,155	1.30	66,991	1.63
1938	1,242	1.40	68,605	1.66
1939	1,275	1.45	67,133	1.53
1940	1,260	1.48	68,740	1.72
1941	1,224	1.46	68,974	1.78
1942	1,261	1.54	70,139	1.83
1943	1,327	1.64	71,814	1.90
1944	1,287	1.57	71,688	1.90
1945	1,449	1.75	74,291	1.95
1946	1,421	1.65	75,748	1.86

TABLE 29.

ADMINISTRATIVE COUNTY OF DURHAM.—Diphtheria Immunisation, 1946.—

District.	Child Population Mid—1946.		Live Births Registered.		Number and estimated percentage of mid—1946 Child Population immunised up to 31st December, 1946.				Number who completed a full course of primary immunisation during the year 1946.			Number who were given a reinforcing injection during the year 1946.
					Under 5		5—15		Under 5	5—15	Total	
					No.	%	No.	%					0—15
URBAN DISTRICTS.												
Durham	1,380	2,690	269	393	389	28	2,035	76	136	224	360	15
Hartlepool	1,390	2,840	341	426	587	42	1,646	58	131	22	153	16
Jarrow	2,380	4,550	508	630	1,317	55	2,750	60	468	53	521	127
Stockton	6,230	11,070	1,311	1,585	2,364	38	7,537	68	851	292	1,143	13
Barnard Castle	332	622	66	95	141	43	332	53	69	14	83	3
Billingham	2,000	3,950	434	515	1,279	64	3,478	88	408	66	474	595
Bishop Auckland	2,790	5,350	660	774	916	33	3,042	57	294	23	317	—
Blaydon	2,310	4,620	509	619	916	40	3,936	85	282	229	511	327
Boldon	1,150	2,440	245	305	303	27	31	1	236	1	237	—
Brandon and Byshottles	1,640	2,880	399	421	693	42	2,083	72	286	25	311	12
Chester-le-Street	1,380	2,650	317	401	589	42	1,836	69	229	158	387	634
Consett	3,110	6,130	694	751	1,510	49	4,779	78	464	133	597	220
Crook & W'ton	2,090	3,760	416	519	200	10	51	1	203	51	254	—
Felling	1,910	3,820	388	492	103	5	80	2	241	36	277	52
Hebburn	2,020	3,760	419	502	805	40	3,473	92	215	5	220	19
Hetton	1,620	3,090	377	365	501	31	2,338	75	148	18	166	13
Houghton	2,430	4,640	499	636	780	32	3,008	65	296	164	460	179
Ryton	1,050	1,950	238	252	527	50	1,604	82	201	6	207	13
Seaham	2,180	4,470	515	585	382	17	3,534	80	295	112	407	163
Shildon	1,150	2,220	231	296	230	20	846	39	91	18	109	—
Spennymoor	1,660	3,060	356	454	349	21	1,900	62	147	17	164	—
Stanley	3,860	7,200	862	975	1,240	32	3,564	50	518	94	612	52
Tow Law	270	490	53	75	60	2	239	49	21	1	22	—
Washington	1,370	2,880	314	332	515	38	1,853	64	241	27	268	—
Whickham	1,660	3,460	344	434	681	41	2,758	80	279	30	309	17
RURAL DISTRICTS.												
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Chester-le-Street	3,260	6,250	748	875	2,529	78	5,059	81	516	618	1,134	655
Darlington	710	1,350	155	152	365	51	1,099	81	42	5	47	—
Durham	2,520	4,930	588	725	1,381	55	4,371	88	192	56	248	—
Easington	7,290	13,810	1,627	1,751	3,149	43	9,754	71	995	150	1,145	72
Lanchester	1,200	2,460	262	259	482	40	1,974	80	213	36	249	17
Sedgefield	2,740	5,250	652	677	947	35	4,591	87	301	65	366	410
Stockton	690	1,220	116	161	14	2	6	0.4	14	6	20	—
Sunderland	1,860	3,900	337	514	810	44	3,430	88	134	—	134	13
Weardale	630	1,260	101	144	264	42	1,013	80	95	17	112	—
ADMINISTRATIVE COUNTY	71,622	137,542	15,639	18,408	27,722	39	91,588	66	9,411	2,847	12,258	3,642

VACCINATION.

The work in the administrative county was carried out by 72 public vaccinators and 25 vaccination officers.

Appended is a summarised return from the vaccination officers in the administrative county :—

1st January to 31st December, 1945 :—

1.	Number of births returned in the "Birth List Sheets" as registered	14,306
2.	Number of these births duly entered by 31st January, 1947, in Columns 1, 2, 4 and 5 of the "Vaccination Register" (Birth List Sheets), viz. :—	
(a)	Successfully vaccinated	5,213
(b)	Insusceptible of vaccination	42
(c)	Had small-pox	—
(d)	Number in respect of whom statutory declarations of conscientious objection have been received	5,619
(e)	Died unvaccinated	445
3.	Number of these births which on 31st January, 1947, remained unentered in the "Vaccination Register" on account of	
(a)	Postponement by medical certificate	357
(b)	Removal to districts the vaccination officers of which have been duly apprised	626
(c)	Removal to places unknown, or which cannot be reached ; and cases not having been found	411
4.	Number of these births remaining on 31st January, 1947, neither duly entered in the "Vaccination Register" nor temporarily accounted for in the "Report Book"	* 1,593
		<hr/>
		14,306
5.	Number of children successfully vaccinated after the declaration of conscientious objection had been made	10

1st January to 31st December, 1946 :—

6.	Total number of certificates of successful primary vaccinations of children under 14 received during the calendar year 1946	5,862
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7. Number of statutory declarations of conscientious objection actually received by the vaccination officers irrespective of the dates of births of the children to which they relate, during the calendar year 1946	5,769
8. Total number of certificates for the year 1946 sent to other vaccination officers	866
* These cases are as follows :—	
Consett district	205
Stanley district	5
Easington district	321
Felling district	20
Darlington district	15
Whickham district	46
Barnard Castle district	26
Seaham district	125
Durham district	30
Jarrow district	214
Sedgefield district	142
Chester-le-Street district	7
Stockton district	4
Blaydon district	204
Lanchester district	36
Houghton-le-Spring district	40
Castle Eden district	139
Birtley district	14
	<hr/> 1,593

Table 33 shows the numbers of persons vaccinated and re-vaccinated at the cost of the rates by the medical officers of the public assistance institutions and the public vaccinators during the year ended 30th September, 1946.—

TABLE 33.

Numbers of successful Primary Vaccinations of Persons :—			Number of successful re-vaccinations, <i>i.e.</i> , successful vaccinations of persons who had been successfully vaccinated at some previous time.
Under one year of age	One year and upwards	Total.	
4,350	278	4,628	112

BLIND PERSONS.

Administration.—The number of blind persons on the County Council's register on the 31st December, 1946, was 1,863, a increase of 5 on the total at the 31st December, 1945. During the year the names of 204 blind persons were added to the register, 9 blind persons were certified "not blind," and 190 died or left the county area. Included in the number of cases certified "not blind" were those whose sight was restored after receiving surgical treatment under the Council's arrangements for the prevention of blindness. A total of 285 eye examinations was carried out by three part-time ophthalmologists appointed by the County Council.

These cases are classified as follows :—

First examinations.

Number certified "blind"	167
Number certified "not blind"	65

Re-examinations.

Number certified "blind"	35
Number certified "not blind"	18

Total number of examinations	<u>285</u>
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Education, Training and Employment.—At the end of the year 34 children were receiving elementary education in schools for the blind, and 19 blind persons over the age of 16 years were being trained in suitable trades. The number of trained unemployed blind persons was 6 compared with 5 at the end of the previous year. There were 52 workshop employees and 7 home workers in respect of whom the County Council made grants to the Sunderland and Cleveland Institutions for the Blind and grants were made to the Northern Branch of the National Library for the Blind in respect of 2 blind persons who were employed as Braille copyists.

Domiciliary Assistance.—During the year £84,707 (an average of £1,629 per week) was expended in domiciliary assistance to registered blind persons compared with £95,293 and £1,833 respectively during the year 1945. On the 31st December, 1946, 1,333 blind persons were in receipt of assistance compared with 1,398 on the corresponding date in 1945.

Home Teachers.—Seventeen home teachers for the blind were employed by the County Council during 1946 and were seconded for duty to the Royal Institution for the Blind, Sunderland, and the Cleveland and South Durham Institute for the Blind. During the year under review these teachers paid 25,210 visits to the homes of blind persons in the County area.

Prevention of Blindness.—During the year 58 persons received treatment under the County Council's arrangements for the prevention of blindness and spectacles were supplied in 40 cases.

Wireless for the Blind.—Under Section 1 of the Wireless Telegraphy (Blind Persons Facilities) Act, 1926, 152 certificates enabling blind persons to obtain free wireless licences were issued during the year.

Homes for the Blind.—On the 31st December, 1946, 11 blind persons were in permanent residence in Homes for the Blind, the cost of maintenance being paid by the County Council.

TUBERCULOSIS.

INSTITUTIONAL TREATMENT.

Accommodation.—Table 34 shows the number of beds available on the 31st December, 1946, for males, females and children (a) in sanatoria belonging to the County Council (b) in sanatorium blocks provided by arrangement with other bodies for county cases and (c) in sanatoria belonging to other bodies by arrangement.

TABLE 34.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Number of beds available for the treatment of tuberculosis.

	Beds for Pulmonary Cases.			Beds for Non-Pulmonary Cases.			Total Beds.
	Adults		Children under 15	Adults		Children under 15	
	M.	F.		M.	F.		
(a)							
Hollywood Hall	183	—	—	—	—	—	183
Seaham Hall	—	82	—	—	19	29	130
Earl's House	—	—	39	—	—	39	78
Dryburn Hospital	—	—	—	25	—	—	25
(b)							
East Boldon Isol. Hospital	—	17	—	—	—	—	17
Ford Hospital	—	39	—	—	—	—	39
(Sunderland R.D.C.) Helmington Row	14	—	—	—	—	—	14
Tindale Crescent	—	14	—	—	—	—	14
West Lane Isolation Hosp..... (Middlesbrough)	—	6	—	—	—	—	6
(c)							
Stannington	—	—	*22	—	—	*23	*45
Sanatorium Leazes House	—	12	—	—	—	—	12

*Approximate

Waiting List.—The following numbers of patients were awaiting admission to sanatoria and hospitals on the 31st December.

			Sanatorium.		Hospitals.
			Pul.	Non. Pul.	
Adult males .....	.....	.....	* 90	—	—
Adult females .....	.....	.....	76	3	2
Boys .....	.....	.....	3	6	1
Girls .....	.....	.....	11	5	2
Totals .....	.....	.....	180	14	5

* These figures include 14 pulmonary adult males, service cases, most of whom are at present in military hospitals awaiting transfer to county institutions.

HOLYWOOD HALL SANATORIUM.

1. Admissions, discharges, etc. :—

(a) No. of patients admitted during the year	.....	225
(b) No. of patients discharged during the year	.....	239
(c) No. of beds occupied on 31st December	.....	136
(d) Average duration of stay (in days)	.....	279

2. Classification of patients discharged :—

Adults	{	Pulmonary	.....	.....	.....	207
		Non-pulmonary	.....	.....	.....	29
		Non-tuberculous	.....	.....	.....	3
						<hr/>
Total						239

3. Result of treatment :—

Quiescent or arrested	.....	.....	.....	.....	54
Improved	.....	.....	.....	.....	87
No material improvement	.....	.....	.....	.....	83
Died in institution	.....	.....	.....	.....	12
Non-tuberculous	.....	.....	.....	.....	3

4. X-ray department :—

(a) No. of X-Ray photographs :—

	In-Patients.	Out-Patients	Staff	Total.
Chest	1175	438	68	1681
Bones and Joints	61	6	7	74
Abdomen	7	—	—	7
Kidney	2	—	2	4
Miscellaneous	24	11	5	40
Totals	<u>1269</u>	<u>455</u>	<u>82</u>	<u>1806</u>

(b) No. of screen examinations 3600

5. Appliances made during the year :—

(a) Celluloid spinal jacket	.....	.....	.....	.....	Nil.
(b) Other splints	.....	.....	.....	.....	Nil.
Total	.....	.....	.....	.....	<u>Nil.</u>

6. Collapse therapy.—

(a) No. of patients treated by artificial pneumothorax	.....	112
(b) No. of refills of air given to in-patients	.....	} 2048
(c) No. of refills of air given to out-patients	.....
(d) No. of patients treated by pneumoperitoneum	.....	25
(e) No. of refills given	.....	428

7. Operations.—

(a) Adhesiotomies	.....	26
(b) Phreniectomy	.....	17
(c) Thoracoplasty at Shotley Bridge E.M.S. Hospital	.....	6
(d) Bronchoscopy	.....	2

8. On 2nd May, 1946, 14 non-pulmonary cases were transferred to Dryburn Emergency Hospital from a pavilion which was thereafter occupied by pulmonary cases until 29th August when it was closed owing to shortage of nurses.

SEAHAM HALL SANATORIUM.

1. Admissions, discharges, etc. :—

(a) No. of patients admitted during the year	.....	149
(b) No. of patients discharged during the year	.....	140
(c) No. of beds occupied on 31st December	.....	128
(d) Average duration of stay (in days)	.....	266.8

2. Classification of patients discharged :—

Adults	{	Pulmonary	.....	.....	.....	104
		Non-pulmonary	.....	.....	.....	21
		Non-tuberculous	.....	.....	.....	—
Children	{	Pulmonary	.....	.....	.....	—
		Non-pulmonary	.....	.....	.....	15
		Non-tuberculous	.....	.....	.....	—
		Total	.....	.....	.....	<u>140</u>

3. Result of treatment :—

Quiescent or arrested	.....	.....	.....	.....	.....	42
Improved	.....	.....	.....	.....	.....	67
No material improvement	.....	.....	.....	.....	.....	23
Died in institution	.....	.....	.....	.....	.....	8
Non-tuberculous	.....	.....	.....	.....	.....	—

4. X-ray department :—

(a) No. of X-ray photographs :—

		In- Patients	Out- Patients	Staff	Total.
Chest	.....	676	50	92	818
Bones and Joints	.....	153	—	1	154
Abdomen	.....	—	—	—	—
Kidney	.....	—	—	—	—
Miscellaneous	.....	11	—	2	13
Totals	....	840	50	95	985

(b) No. of screen examinations (approximately) 12,000–14,000

5. Appliances made during the year :—

(a) Celluloid spinal jackets	.....	.....	.....	.....	6
(b) Other splints	.....	.....	.....	.....	13
Total					<u>19</u>

6. Collapse therapy :—

(a) No. of patients treated by artificial pneumothorax	.....	71
(b) No. of refills of air given to in-patients	.....	1165
(c) No. of refills of air given to out-patients	.....	849

EARL'S HOUSE SANATORIUM.

1. Admissions, discharges, etc. :—

(a) No. of patients admitted during the year	.....	72
(b) No. of patients discharged during the year	.....	91
(c) No. of beds occupied on 31st December	.....	52
(d) Average duration of stay (in days)	.....	342

2. Classification of patients discharged :—

Children	{ Pulmonary	.....	.....	.....	.....	34
	{ Non-pulmonary	.....	.....	.....	.....	52
	{ Non-tuberculous	.....	.....	.....	.....	5
Total						<u>91</u>

3. Result of treatment :—

Quiescent or arrested	.....	.....	.....	.....	.....	65
Improved	.....	.....	.....	.....	.....	14
No material improvement	.....	.....	.....	.....	.....	2
Died in institution	.....	.....	.....	.....	.....	5
Non-tuberculous	.....	.....	.....	.....	.....	5

4. X-ray department.

(a) No. of X-ray photographs :—

	In- Patients.	Out. Patients.	Staff	Total.
Chest	184	324	98	606
Bones and joints	115	30	11	156
Abdomen	17	—	—	17
Kidney	4	—	—	4
Miscellaneous	10	—	2	12
Totals	<u>330</u>	<u>354</u>	<u>111</u>	<u>795</u>

(b) No. of screen examinations 708

5. Appliances made during the year:—

(a) Celluloid spinal jackets	.....	.....	.....	.....	10
(b) Other splints	.....	.....	.....	.....	12
Total					<u>22</u>

6. Collapse therapy :—

(a) No. of patients treated by artificial pneumothorax	.....	56
(b) No. of refills of air given to in-patients	.....	137
(c) No. of refills of air given to out-patients	.....	571

7. It will be observed that the number of beds occupied on the 31st December, 1946 was only 52. This reduction in occupied beds is due to shortage of nursing staff.

8. An arrangement has been made with the Durham County Constabulary for X-ray examination of all recruits at Earl's House Sanatorium and 211 recruits were examined during the year.

20 members of the staff of Thorpe Isolation Hospital, Easington were X-rayed during the year.

TABLE 35.

Admissions to, and discharges from, sanatoria and hospitals during the year ended 31st December, 1946.

INSTITUTIONS.	Beds available.			In Institution 1st Jan., 1946	Admissions.	Discharges.	In Institution 31st Dec. 1946
	M	F	C				
SANATORIA.							
Hollywood Hall ..	183	—	—	150	225	239	136
Seaham Hall	—	102	—	91	134	126	99
Do.	—	—	28	28	15	14	29
Earl's House	—	—	78	71	72	91	52
Stannington	—	—	45	42	19	38	23
Ford (Sunderland R.D.C.) ..	—	39	—	36	82	80	38
Helmington Row	14	—	—	14	27	28	13
Tindale Crescent	—	14	—	11	39	36	14
West Lane, Middlesbrough ..	—	6	—	11	29	36	4
Leazes House	—	12	—	12	15	16	11
Nayland	—	—	—	1	—	1	—
Papworth	—	—	—	3	4	1	6
Dryburn	—	—	—	—	43	20	23
East Boldon	—	17	—	—	30	13	17
Preston Hall	—	—	—	—	1	—	1
Walkergate, Newcastle ..	—	—	—	—	1	1	—
GENERAL HOSPITALS.							
Bensham General				2	21	17	6
Darlington Memorial				1	1	1	1
Durham County				1	2	2	1
Fleming Memorial				2	8	6	4
Gateshead Children's				2	7	8	1
Hartlepool				2	3	3	2
Hexham Emergency				1	7	5	3
Ingham, South Shields				—	23	22	1
Richard Murray				—	1	1	—
R.V.I. Newcastle				4	21	23	2
Sherburn, nr. Durham ..				4	85	89	—
Shotley Bridge Emergency ..				5	45	44	6
South Moor				1	3	4	—
South Shields General				6	30	26	10
Stockton and Thornaby				1	5	4	2
Sunderland Children's				—	3	3	—
Sunderland Royal				—	5	4	1
Whickham				3	18	19	2
Winterton Emergency				—	8	7	1
Cherry Knowle				—	1	—	1
COUNTY P.A. HOSPITALS.							
Barnard Castle				—	3	1	2
Bishop Auckland				1	4	3	2
Chester-le-Street				1	3	4	—
Durham				1	3	2	2
Easington				1	3	3	1
Lanchester				5	3	6	2
Stockton				4	24	21	7
TOTALS	197	190	151	518	1076	1068	526

West Lane Isolation Hospital and Sanatorium, Middlesbrough.—At the request of the Middlesbrough Corporation, beds for adult pulmonary females were reduced from 12 to 6 from the 27th November, 1946.

Dryburn Emergency Hospital.—Arrangements were made for the maintenance and surgical treatment of male non-pulmonary patients at this hospital, and 25 beds were available as from the 2nd May, 1946. This replaced the non-pulmonary pavilion at Holywood Hall Sanatorium which was closed owing to the shortage of nurses.

East Boldon Isolation Hospital.—Arrangements were made with the Boldon Urban District Council for the treatment of female pulmonary patients in this hospital. Fourteen beds were in use as from the 18th June, 1946, and shortly afterwards 3 additional beds were offered, making a total of 17 beds available.

DISTRICT WORK.

Dispensary Districts.—There was no alteration in the dispensary districts during the year.

The session at the Stanley Dispensary was changed from Thursday to Friday as from the 7th March, 1946.

Dispensary and Domiciliary Work.—The total number of persons who attended the dispensaries was 12,049 compared with 9,151 in 1945. Further statistical information regarding the work done will be found in Table 36. The number of cases on the registers (5,130) represents a rate of 5.9 per 1,000 population of the county.

Radiography.—During the year 8,166 films were made at the request of the district tuberculosis officers, being ; chest—7,520, bones and joints—297, abdomen—337, and other regions—12. The number has again increased compared with previous years.

Mass Miniature Radiography.—During the year the mass miniature radiography unit was not available for use in the county, but public sessions were held at Newcastle-upon-Tyne and arrangements were made with the medical officer of health of that authority for the mass radiography of certain members of the public residing in the county area, at a nominal charge of 1/- per head.

Treatment Allowances.—Maintenance allowances are available to certain classes of patients suffering from pulmonary tuberculosis who give up remunerative employment on the advice of the tuberculosis officer to undergo sanatorium or some other approved form of treatment, and the cost is refunded to the local authority by the Government. During the year the allowances granted totalled £24,401 13s. 11d. Of this amount £23,805 10s. 2d. was paid as maintenance allowances, £422 19s. 7d. as discretionary allowances and £173 4s. 2d. as special payments. The number of new applications granted was 323. In the previous year the total amount granted was £25,430 10s. 7d. and the number of new applications 345.

Rehabilitation.—Arrangements previously made for rehabilitation were continued.

Artificial Light Treatment of Skin Tuberculosis.—Treatment of skin tuberculosis has been carried on as in previous years at the Skin Clinic of the Royal Victoria Infirmary, Newcastle-on-Tyne. The number of new cases who commenced treatment during the year was 11, viz. :—lupus vulgaris—4 ; scrofuloderma—3 ; glands—3 ; and dental abscess in sinus—1. The total number of treatments given during the year was 2,136 compared with 3,564 in 1945.

During the past year there has been a considerable fall in the number of new cases from this area. This is probably accounted for by the introduction of the new treatment with calciferol. It is worth noting that this treatment has brought about considerable improvement in the majority of cases and can be considered a definite advance.

Surgical Appliances.—During the year orthopaedic appliances were supplied or repaired for 31 patients on the recommendation of the tuberculosis officers.

Dental Treatment.—Provision continued to be made for dental treatment in institutions for certain patients who were in poor financial circumstances.

Sanitary Defects.—The county health visitors reported 169 such defects existing in houses where a notified tuberculous patient was in residence.

Ministry of Pensions.—271 reports on ex-service pensioners were supplied to the Ministry of Pensions during the year. At the beginning of the year 49 tuberculous pensioners were receiving treatment in sanatoria and hospitals ; during the year 79 were admitted, 74 were discharged ; and 4 died. At the end of the year 50 were receiving in-patient treatment.

Service Cases.—At the beginning of the year 12 tuberculous servicemen were receiving treatment in sanatoria and hospitals ; during the year 69 were admitted ; 1 became chargeable to the Ministry of Pensions ; 45 were discharged. At the end of the year 35 were receiving in-patient treatment.

School Medical Department. The number of suspected tuberculous school children referred to the dispensaries by assistant school medical officers was 208 (114 boys and 94 girls) and the district tuberculosis officers found that of this number 19 boys and 27 girls were tuberculous.

Open-air Shelters.—At the beginning of the year there were 22 shelters in use and 48 awaiting removal. During the year 8 were removed from patients who had no further use for them and were erected for other patients or stored. The total number of shelters at the end of the year was 70 of which number 17 were in use and 53 awaiting removal.

Diagnosis.	Pulmonary				Non-Pulmonary				Total				GRAND TOTALS
	Adults.		Children		Adults.		Children.		Adults.		Children.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
A.—(1) Number of definite cases of tuberculosis on Dispensary Register at the beginning of the year	1467	1274	173	189	244	346	674	640	1711	1620	847	829	5007
(2) Transfers from other Authorities during the year.....	36	40	1	—	5	5	3	2	41	45	4	2	92
(3) Lost sight of cases returned during the year	35	19	3	—	8	9	6	4	43	28	9	4	84
													5183
B.—Number of New Cases diagnosed during the year :													
(1) Class T.B. Minus	230	173	45	40	—	—	—	—	230	173	45	40	488
(2) Class T.B. Plus	225	177	2	2	—	—	—	—	225	177	2	2	406
(3) Non-pulmonary	—	—	—	—	45	51	99	81	45	51	99	81	276
													1170
C.—Number of cases included in A. and B. written off the Dispensary Register during the year as :—													
(1) Recovered	40	53	8	15	44	85	117	88	84	138	125	103	450
(2) Dead (all causes)	183	170	4	8	10	3	4	1	193	173	8	9	383
(3) Removed from area	55	72	2	2	9	24	10	12	64	96	12	14	186
(4) For other reasons	80	46	6	4	21	22	17	8	101	68	23	12	204
													1223
D.—Number of definite cases of tuberculosis on Dispensary Register at the end of the year	1635	1342	204	202	218	277	634	618	1853	1619	838	820	5130
1. Number of cases on Dispensary Register on January 1st, 1946	5,007												20,533
2. Number of attendances at the Dispensary (including Contacts)	27,661												2,827
3. Number of consultations with medical practitioners :— (a) Personal	1,041												8,166
(b) Other	4,804												
4. Number of visits by Tuberculosis Officers to homes (including personal consultations)	3,031												16
													1,486

5. Number of visits by Health Visitors to homes for Dispensary purposes 20,533

6. Number of :—
(a) Specimens of sputum, etc., examined 2,827
(b) X-ray examination made in connexion with Dispensary work 8,166

7. Number of "Recovered" cases restored to Dispensary Register, and included in B above 16

8. Number of "T.B. plus" cases on Dispensary Register on December 31st, 1946 1,486

Care and After-Care.—The following is a summary of the provision made by the seven district care committees :—

Extra nourishment	.....	920
*Clothing and/or boots	.....	105
Bedsteads and bedding	.....	135
Dental treatment	.....	5
Appliances	.....	3
Referred to Public Assistance Committees		
and other bodies	.....	13
Overcrowding (houses)	.....	42
Home help provided	.....	9
Rent assistance	.....	4
Other assistance	.....	19
No action	.....	32

*A large amount of second-hand clothing has also been issued.

Incidence and Mortality.

Notification.—The number of primary notifications received during the year was 1,308 (Tables 37, 39-40). In addition, information was obtained other than by formal notification in respect of 196 cases (Table 38).

Incidence.—New cases coming to notice during the year numbered 1,436 (Table 41). This gives an incidence rate for all forms of tuberculosis of 1.66 per 1,000 estimated population. Of the cases actually coming under the supervision of the tuberculosis medical officers during 1946, 8.9% were unnotified at the end of the year.

Deaths and Death-rates.—Tables 42 and 43 give the number of deaths from pulmonary and non-pulmonary tuberculosis by age in the separate county districts. Deaths in the county as a whole distinguishing age and sex for pulmonary and non-pulmonary forms of the disease are given in Table 41. In Tables 44 and 45 the death rates from pulmonary and non-pulmonary tuberculosis in the boroughs and in the urban and rural districts of the administrative county area are compared.

The ratio of non-notified tuberculosis deaths to total tuberculosis deaths is 19.0% compared with 20.3% for the previous year. Every effort is made to induce medical practitioners either to notify cases or to send them to dispensaries as soon as tuberculosis is diagnosed.

TABLE 37.
ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Tuberculosis Notifications.

Age Periods.	Formal Notifications.												Total* Notifi- cations	
	No. of Primary Notifications of new cases of Tuberculosis.													
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and over	Total (all ages)		
Pulmonary :														
Males	1	10	14	18	55	82	132	82	92	53	15	554	582
Females	—	12	9	15	79	90	109	45	26	16	1	402	421
Non-Pulmonary :														
Males	5	27	61	26	22	8	10	14	8	1	2	184	190
Females	2	26	49	29	20	10	13	12	2	4	1	168	176
Totals	8	75	133	88	176	190	264	153	128	74	19	1308	1369

* Includes duplicate notifications.

TABLE 38.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—New cases of Tuberculosis coming to the knowledge of the County Medical Officer of Health otherwise than by Formal Notification.

Age Periods.	0 — 1	1 — 5	5 — 10	10 — 15	15 — 20	20 — 25	25 — 35	35 — 45	45 — 55	55 — 65	65 and up- wards	Total.
Pulmonary—												
Males	—	5	1	2	3	6	21	8	9	3	3	61
Females	1	—	1	—	7	18	25	7	3	2	2	66
Non-Pulmonary												
Males	1	10	6	8	2	2	4	3	—	1	1	38
Females	2	6	4	5	5	3	3	1	2	—	—	31
Totals	4	21	12	15	17	29	53	19	14	6	6	196

The sources from which information as to the above-mentioned cases was obtained were as follows :—

Source of Information.	No. of Cases.	
	Pulmonary	Non-Pulmonary
Death Returns—from local Registrars	32	16
Death Returns—transferable deaths from Registrar General	20	35
Posthumous notifications	8	5
“Transfers” from other areas (other than transferable deaths)	67	13
Other Sources, if any	—	—
Total	127	69

TABLE 39.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Notifications of tuberculosis in the different urban and rural districts in the administrative county during the period 1st January, 1946, to 31st December, 1946 :—

District.	Primary Notifications of new cases of Tuberculosis.			
	Pulmonary.		Non-pulmonary.	
	Males.	Females	Males.	Females
URBAN.				
Durham	9	5	1	4
Hartlepool	17	12	3	2
Jarrow	29	31	8	2
Stockton	41	22	6	7
Barnard Castle	2	—	—	2
Billingham	10	7	5	4
Bishop Auckland	31	15	17	14
Blaydon	21	14	8	8
Boldon	6	7	4	5
Brandon and Byshottles	14	5	9	2
Chester-le-Street	7	8	2	1
Consett	17	12	9	4
Crook and Willington	11	10	7	9
Felling	26	10	3	8
Hebburn	19	12	4	2
Hetton	11	14	4	2
Houghton-le-Spring	13	11	9	9
Ryton	3	9	1	2
Seaham	20	15	11	6
Sildon	11	11	4	3
Spennymoor	19	15	3	1
Stanley	30	26	3	5
Tow Law	—	—	—	2
Washington	6	12	2	1
Whickham	19	15	2	1
Totals	392	298	125	106
RURAL.				
Barnard Castle	6	4	5	5
Chester-le-Street	32	23	8	15
Darlington	1	3	1	—
Durham	15	8	6	7
Easington	46	27	19	16
Lanchester	4	1	2	1
Sedgefield	18	14	5	4
Stockton	2	4	1	—
Sunderland	32	17	11	12
Weardale	6	3	1	2
Totals	162	104	59	62
Administrative County	554	402	184	168

TABLE 40.

ADMINISTRATIVE COUNTY OF DURHAM.—Primary Notifications of Tuberculosis, 1937-1946.

Year	Pulmonary.	Non-Pulmonary.	Totals.
1937	732	524	1,256
1938	649	572	1,221
1939	702	497	1,199
1940	636	430	1,066
1941	692	400	1,092
1942	701	438	1,139
1943	741	444	1,185
1944	801	399	1,200
1945	754	423	1,177
1946	956	352	1,308

TABLE 41.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Tuberculosis New Cases and Mortality.

Age Period.	New Cases				Deaths.			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
0	1	—	5	2	2	—	2	6
1	14	14	32	26	2	1	12	13
5	19	12	64	49	3	1	12	6
10	22	18	29	34	6	3	15	2
15	60	90	25	20	12	30	4	6
20	89	99	10	16	25	51	4	4
25	140	117	12	16	46	61	5	2
35	86	51	14	12	48	29	3	2
45	99	29	8	3	49	10	6	5
55	59	16	1	4	23	10	1	—
65 and upwards	15	1	2	1	15	3	—	1
Totals	604	447	202	183	231	199	64	47

TABLE 42.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Deaths from Pulmonary Tuberculosis.

District.	Deaths at Subjoined Ages.											Totals
	Under 1 year	1 and under 5	5 and under 10	10 and under 15	15 and under 20	20 and under 25	25 and under 35	35 and under 45	45 and under 55	55 and under 65	65 and upwards	
URBAN.												
Durham	—	—	—	—	—	2	4	—	—	1	1	8
Hartlepool	—	—	—	—	2	3	1	3	1	—	—	10
Jarrow	—	—	1	—	3	8	9	3	6	2	1	33
Stockton	1	—	1	1	3	—	5	10	6	5	—	32
Barnard Castle	—	—	—	—	—	—	—	2	—	—	—	2
Billingham	1	—	—	1	1	2	4	1	1	—	1	12
Bishop Auckland	—	—	1	—	2	4	3	4	6	3	1	24
Blaydon	—	—	—	—	—	2	5	5	2	3	—	17
Boldon	—	1	—	—	1	—	2	2	—	—	—	6
Brandon & Bysh.	—	—	—	—	1	1	3	2	—	2	—	9
Chester-le-St.	—	—	1	—	1	2	—	—	—	—	1	5
Consett	—	—	—	2	1	2	7	1	5	—	—	18
Crook & Wilngtn	—	—	—	—	—	3	4	1	1	—	—	9
Felling.....	—	—	—	—	2	2	4	2	1	1	—	12
Hebburn	—	—	—	—	—	6	7	3	1	—	—	17
Hetton	—	—	—	—	4	4	1	3	1	—	—	13
Houghton-le-Spr	—	—	—	—	1	—	1	3	1	1	1	8
Ryton	—	—	—	—	—	—	—	1	1	—	1	3
Seaham	—	—	—	—	—	4	1	4	—	—	2	11
Shildon	—	1	—	—	1	—	1	1	1	—	—	5
Spennymoor	—	—	—	—	2	1	7	5	1	3	—	19
Stanley	—	1	—	1	2	4	2	3	3	2	1	19
Tow Law	—	—	—	—	—	—	—	—	—	—	—	—
Washington	—	—	—	—	1	1	1	1	1	2	—	7
Whickham	—	—	—	—	3	4	10	3	1	—	2	23
Totals ..	2	3	4	5	31	55	82	63	40	25	12	322
RURAL.												
Barnard Castle	—	—	—	1	—	—	—	—	—	—	1	2
Chester-le-Street	—	—	—	1	1	6	4	2	3	1	1	19
Darlington	—	—	—	—	—	—	—	—	1	—	—	1
Durham	—	—	—	—	3	3	5	2	2	—	—	15
Easington	—	—	—	—	2	6	8	4	4	1	—	25
Lanchester	—	—	—	—	—	—	3	1	—	—	—	4
Sedgefield	—	—	—	—	2	2	1	1	5	3	1	15
Stockton	—	—	—	—	—	—	—	2	1	—	1	4
Sunderland	—	—	—	2	3	4	2	2	3	3	1	20
Weardale	—	—	—	—	—	—	2	—	—	—	1	3
Totals	—	—	—	4	11	21	25	14	19	8	6	108
Administrative County	2	3	4	9	42	76	107	77	59	33	18	430

TABLE 43.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Deaths from Non-Pulmonary Tuberculosis.

District.	Deaths at Subjoined Ages.											Totals
	Under 1 year	1 and under 5	5 and under 10	10 and under 15	15 and under 20	20 and under 25	25 and under 35	35 and under 45	45 and under 55	55 and under 65	65 and upwards	
URBAN.												
Durham	—	—	—	—	—	—	—	—	—	—	—	—
Hartlepool	—	—	—	—	1	—	—	—	—	1	—	2
Jarrow	—	—	1	2	—	1	1	1	1	—	—	7
Stockton	1	5	2	1	—	—	2	—	—	—	—	11
Barnard Castle	—	—	—	—	—	—	—	—	—	—	—	—
Billingham	1	—	1	—	—	1	—	—	1	—	—	4
Bishop Auckland	1	1	—	—	—	—	—	—	—	—	—	2
Blaydon	—	1	2	—	1	—	—	—	—	—	—	4
Boldon	—	3	—	2	—	—	—	—	—	—	—	5
Brandon & Bysh.	—	1	—	—	—	1	—	—	—	—	—	2
Chester-le-St.	—	1	—	—	—	—	—	—	—	—	—	1
Consett	—	—	4	2	—	—	—	—	1	—	—	7
Crook & Wlngtn	—	1	1	—	—	—	—	—	1	—	—	3
Felling	1	—	—	—	1	—	1	—	—	—	—	3
Hebburn	1	1	—	1	—	1	1	—	—	—	—	5
Hetton	—	—	—	1	—	—	—	—	—	—	—	1
Houghton-le-Sp.	—	—	—	—	—	—	1	1	—	—	—	2
Ryton	—	—	1	—	—	—	—	—	—	—	—	1
Seaham	—	—	—	1	—	—	—	—	—	—	—	1
Shildon	—	—	1	—	—	1	—	—	—	—	—	2
Spennymoor	—	1	—	—	—	1	—	—	—	—	—	2
Stanley	—	—	—	1	2	—	—	—	2	—	—	5
Tow Law	—	—	—	—	—	—	—	—	—	—	—	—
Washington	—	1	—	—	—	—	—	1	—	—	1	3
Whickham	—	1	—	1	—	—	—	—	1	—	—	3
Totals	5	17	13	12	5	6	6	3	7	1	1	76
RURAL.												
Barnard Castle	1	—	—	—	—	—	1	—	—	—	—	2
Chester-le-St.	—	1	—	—	2	1	—	—	1	—	—	5
Darlington	—	1	—	—	—	—	—	—	—	—	—	1
Durham	—	1	2	—	—	1	—	—	—	—	—	4
Easington	1	1	1	2	2	—	—	—	—	—	—	7
Lanchester	—	—	—	—	—	—	—	—	—	—	—	—
Sedgefield	—	3	—	2	—	—	—	1	1	—	—	7
Stockton	—	—	—	—	—	—	—	—	—	—	—	—
Sunderland	1	1	1	1	1	—	—	1	2	—	—	8
Weardale	—	—	1	—	—	—	—	—	—	—	—	1
Totals	3	8	5	5	5	2	1	2	4	—	—	35
Administrative County	8	25	18	17	10	8	7	5	11	1	1	111

TABLE 44.

ADMINISTRATIVE COUNTY OF DURHAM.—Pulmonary Tuberculosis Death-rates, 1942-46.

Rate per 1,000 Living.	1942	1943	1944	1945	1946
Municipal Boroughs	0.62	0.91	0.77	0.79	0.63
Other Urban Districts	0.58	0.64	0.51	0.51	0.51
Rural Districts	0.41	0.49	0.39	0.50	0.40
Administrative County	0.53	0.63	0.51	0.55	0.50*
England and Wales	0.54	0.56	0.52	0.52	0.48

*This death-rate of 0.50 per 1,000 population is the lowest on record for this administrative county.

TABLE 45.

ADMINISTRATIVE COUNTY OF DURHAM.—Non-Pulmonary Tuberculosis Death-rates, 1942-46.

Rate per 1,000 Living.	1942	1943	1944	1945	1946
Municipal Boroughs	0.16	0.14	0.12	0.11	0.15
Other Urban Districts	0.15	0.10	0.10	0.14	0.12
Rural Districts	0.12	0.12	0.16	0.10	0.13
Administrative County	0.15	0.11	0.12	0.13	0.13
England and Wales	0.12	0.11	0.10	0.10	0.08

VENEREAL DISEASES.

There was no alteration in the list of approved treatment centres during the year. Table 46 shows the numbers of patients from the administrative county dealt with at treatment centres for the first time during the year.

TABLE 46.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Numbers of Venereal Diseases patients treated for the first time.

	Treatment Centres.												Totals
	Durham County Hosp.	Stockton and Thor'by Hosp.	New- castle General Hosp.	South Shields Municipal Clinic.	Preston Hospital Tyne- mouth.	Royal Infir. Sunder- land.	Health Centre, West Hartle- pool.	Green- bank Hosp. Dar- lington.	Muni'pal Hospital Middles- brough.	Grims- by.	South- end.	Carshal- ton.	
Syphilis	82	77	156	10	—	77	8	11	7	—	—	1	429
Soft Chancre	—	—	4	—	—	1	2	—	—	—	—	—	7
Gonorrhoea	88	74	285	28	1	107	48	33	13	—	—	—	677
Non-venereal and undiag- nosed conditions	275	259	740	61	—	296	32	59	48	1	1	—	1772
Totals	445	410	1185	99	1	481	90	103	68	1	1	1	2885
Total number of attendances of all patients	5,517	3,976	14,437	956	28	6,182	822	1,154	444	1	1	1	33,519

TABLE 47.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Congenital Syphilis.

Sex.	Treatment Centres.			Totals.
	Durham County Hospital	Stockton and Thornaby Hospital	Newcastle General Hospital	
Male	3	4	2	9
Female	8	3	4	15
Totals	11	7	6	24

REGULATION 33B.

Contacts notified during the year 1946 :—

(1)		M.	F.
(a)	Total number of contacts in respect of whom Form 1 was received	9	66
(b)	Number in (a) transferred from other areas ..	1	2
(2)	Number of cases (1) in which attempts were made during the current period outside the scope of the Regulation to persuade the contact to be examined before the latter had been named on a second Form 1 :—		
	Contacts found	8	47
	Contacts examined or already under treatment	6	40
(3)	(a) Number of those in (1) in respect of whom two or more Forms 1 were received	—	9
	(b) Number included in (3) (a) in respect of whom the first Form 1 was previously reported under (1)	—	2
	(c) Number included in (3) (a) transferred from other areas	—	1
(4)	Number of those in (3) (a) who were :—		
	(a) found	—	7
	(b) examined after persuasion or already under treatment	—	4
	(c) served with Form 2	—	1
	(d) examined after service of Form 2 ..	—	1
	(e) prosecuted for failure :—		
	(i) to attend for, and submit to, medical examination	—	—
	(ii) to submit to and continue treatment	—	—
	(f) transferred to other areas	—	2

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Tuberculosis Work done at dispensaries.

Diagnosis.	Pulmonary				Non-Pulmonary				Total				GRAND TOTALS	
	Adults.		Children		Adults.		Children		Adults.		Children			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
A.—(1) Number of definite cases of tuberculosis on Dispensary Register at the beginning of the year	1467	1274	173	189	244	346	674	640	1711	1620	847	829	5007	
(2) Transfers from other Authorities during the year	36	40	1	—	5	5	3	2	41	45	4	2	92	
(3) Lost sight of cases returned during the year	35	19	3	—	8	9	6	4	43	28	9	4	84	5183
B.—Number of New Cases diagnosed during the year :														
(1) Class T.B. Minus	230	173	45	40	—	—	—	—	230	173	45	40	488	
(2) Class T.B. Plus	225	177	2	—	—	—	—	—	225	177	2	—	406	
(3) Non-pulmonary	—	—	—	—	45	51	99	81	45	51	99	81	276	1170
C.—Number of cases included in A. and B. written off the Dispensary Register during the year as :—														
(1) Recovered	40	53	8	15	44	85	117	88	84	138	125	103	450	
(2) Dead (all causes)	183	170	4	8	10	3	4	1	193	173	8	9	383	
(3) Removed from area	55	72	2	2	9	24	10	12	64	96	12	14	186	
(4) For other reasons	80	46	6	4	21	22	17	8	101	68	23	12	204	1223
D.—Number of definite cases of tuberculosis on Dispensary Register at the end of the year	1635	1342	204	202	218	277	634	618	1853	1619	838	820	5130	
1. Number of cases on Dispensary Register on January 1st, 1946	5,007													20,533
2. Number of attendances at the Dispensary (including Contacts)	27,661													2,827
3. Number of consultations with medical practitioners :—														8,166
(a) Personal	1,041													16
(b) Other	4,804													
4. Number of visits by Tuberculosis Officers to homes (including personal consultations)	3,031													1,486

5. Number of visits by Health Visitors to homes for Dispensary purposes

6. Number of :—

(a) Specimens of sputum, etc., examined

(b) X-ray examination made in connexion with Dispensary work

7. Number of "Recovered" cases restored to Dispensary Register, and included in B above

8. Number of "T.B. plus" cases on Dispensary Register on December 31st, 1946

TABLE A.

ADMINISTRATIVE COUNTY OF DURHAM, 1946.—Deaths by causes at various age periods.

	All Ages	Under 1 week.	Under 1 mth.	1—3 mths.	3—6 mths.	6—9 mths.	9—12 mths.	Under 1 Year	1—2 yrs.	2—5 yrs.	5—15 yrs.	15—25 yrs.	25—45 yrs.	45—65 yrs.	65—75 yrs.	75 & Upw
Smallpox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	4	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—
Diphtheria	17	—	—	—	—	—	1	1	3	2	9	2	1	2	—	—
Antene Fever	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Measles	14	—	—	1	3	3	2	9	3	1	—	—	1	—	—	—
Whooping Cough	25	—	—	5	6	1	2	14	5	4	2	—	—	1	—	—
Diphtheria	9	—	—	4	2	1	—	7	—	—	1	—	—	—	—	—
Epidemic	89	—	6	30	19	11	4	70	4	—	1	—	2	6	6	—
Cerebro-Spinal Fever	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Encephalitis Lethargica	10	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—
Erysipelas	1	—	—	—	—	—	—	—	—	—	—	—	—	4	2	—
Influenza	80	—	—	1	2	2	1	6	1	1	1	2	12	26	31	—
Cancer	1,421	—	—	—	—	—	1	—	—	—	—	—	—	602	463	252
Rheumatic Fever	32	—	—	—	—	—	—	—	—	2	6	4	94	5	—	—
Appendicitis	41	—	—	—	1	—	—	1	—	3	5	6	12	5	—	—
Other Septic Diseases	72	1	2	3	4	1	2	13	4	3	7	6	11	10	4	—
Phthisis	430	—	—	—	—	—	—	—	1	2	10	122	180	98	14	3
Tuberculous-Meningitis	75	—	—	—	—	1	5	6	8	15	29	11	3	3	—	—
Abdominal Tuberculosis	16	—	—	—	—	—	—	—	1	1	2	2	5	5	—	—
Other Tuberculous Diseases	20	—	—	—	—	—	1	1	1	1	2	5	3	4	2	1
Bronchitis	181	1	5	16	26	10	5	63	8	3	1	1	8	41	56	—
Pneumonia	256	4	9	30	58	27	10	138	10	7	4	5	11	47	34	—
Lobar Pneumonia	88	1	—	3	4	3	1	12	2	2	3	4	10	30	25	—
Pneumonia (All other forms)	63	1	1	8	8	5	1	24	6	3	—	2	3	13	12	—
Pleurisy	11	—	—	—	—	—	—	—	—	—	—	—	2	8	1	—
Other Diseases of Respiratory Organs	172	—	—	1	3	1	—	5	1	—	2	4	22	87	51	—
Alcoholism	—	—	—	—	—	—	—	—	—	—	—	—	—	14	1	—
Cirrhosis of Liver	17	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—
Nephritis and Bright's Disease	154	—	—	—	—	—	—	—	—	2	4	12	28	63	45	—
Puerperal Sepsis	9	—	—	—	—	—	—	—	—	—	—	2	7	—	—	—
Other Diseases of Pregnancy, Childbirth and the Puerperal State	41	—	—	—	—	—	—	—	—	—	—	2	38	1	—	—
Congenital Malformation	104	40	26	15	8	4	5	98	5	—	1	—	—	—	—	—
Premature Birth	262	196	51	13	2	—	—	262	—	—	—	—	—	—	—	—
Congenital Debility	35	25	7	3	—	—	—	35	—	—	—	—	—	—	—	—
Marasmus Atrophy	4	1	1	1	1	—	—	4	—	—	—	—	—	—	—	—
Injury at Birth	39	32	5	—	2	—	—	39	—	—	—	—	—	—	—	—
Atelectasis	22	22	—	—	—	—	—	22	—	—	—	—	—	—	—	—
Meningitis (not Tuberculous)	19	—	—	2	4	1	—	7	1	4	1	—	5	1	—	—
Convulsions	19	4	—	5	3	3	1	16	3	—	—	—	—	—	—	—
Gastritis	13	—	—	2	3	2	—	7	—	—	—	—	—	—	—	—
Syphilis	18	—	—	—	—	—	—	—	—	—	—	—	1	1	4	—
Organic Heart Disease	1341	—	—	1	3	—	—	4	—	—	—	—	2	11	5	—
Violent or Accidental Death excluding Suicide	279	7	1	2	6	3	—	19	6	1	10	22	96	515	693	—
Suffocation Overlaying	10	1	4	1	4	—	—	10	—	16	33	36	64	59	32	14
Burns and Scalds	8	—	—	1	—	—	—	2	2	4	—	—	—	—	—	—
Suicide	61	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
Arterio-Sclerosis	975	—	—	—	—	—	—	—	—	—	—	1	19	25	14	2
Senility	2469	—	—	—	—	—	—	—	—	—	—	—	19	333	623	—
Cerebral Haemorrhage	256	—	—	—	—	—	—	—	—	—	—	—	—	—	58	2411
Other Defined Diseases	735	—	—	2	5	3	3	13	5	5	14	28	105	311	253	1
Diseases ill defined or unknown	5	—	—	—	—	—	1	1	—	—	—	—	1	2	—	—
	10,025	336	118	150	177	82	46	909	80	83	156	287	786	2452	2588	2684

TABLE B.
POPULATION, BIRTH-RATE, DEATH-RATE, ETC., WITHIN THE URBAN AND RURAL DISTRICT OF THE ADMINISTRATIVE COUNTY OF DURHAM—1946.

	Medical Officer of Health.	Area in Acres	Registrar General's estimated Resident Population 1946	Live Births.	Still Births.	Deaths.	Birth- rate	Death- rate	Death-rate from seven Principal Infective Diseases	Infant Mortality- rate per 1,000 Births.	Phthisis Death- rate	Total Tuber- culosis Death- rate.	Lung Diseases Death- rate	Deaths occurring outside District included.	Deaths occurring within District excluded.
BOROUGHES.															
Barham	S. K. Young, M.D., B.Hy., D.P.H.	4,048	18,120	393	17	224	21.7	12.4	0.11	41	0.44	0.44	0.33	17	150
Bartholomew	J. W. A. Rodgers, M.B., Ch.B., D.P.H.	1,472	15,780	426	12	203	27.0	12.9	0.51	52	0.63	0.75	1.01	51	44
Barnard	R. Mackay, M.D., D.P.H.	1,697	27,230	630	27	381	23.1	14.0	0.22	38	1.21	1.47	1.25	119	3
Barnard	H. J. Peters, M.B., B.S., B.Hy., D.P.H., D.P.A.	5,465	69,750	1,585	49	807	22.7	11.6	0.13	52	0.46	0.62	0.77	58	122
Barnard Castle	J. G. Paley, M.R.C.S., L.R.C.P., D.P.H.	559	4,190	95	2	78	22.7	18.6	—	53	0.48	0.48	—	17	31
Billingham	L. R. Benham, M.B., B.S., D.P.H.	7,855	22,460	515	23	209	22.9	9.3	0.27	47	0.53	0.71	0.80	54	6
Bishop Auckland	H. G. Donald, M.B., Ch.B., D.P.H.	9,332	34,280	774	36	467	22.6	13.6	0.15	54	0.70	0.76	0.67	93	70
Blaydon	H. Russell, M.B., B.S., B.Hy., D.P.H.	9,235	30,370	619	21	356	20.4	11.7	0.16	47	0.56	0.69	0.63	82	9
Bolton	R. C. F. Smith, M.D., D.P.H.	8,400	15,850	305	5	173	19.2	10.9	0.06	49	0.38	0.69	0.38	61	10
Bonchester & Byshottles	S. K. Young, M.D., B.Hy., D.P.H.	8,224	18,890	421	17	216	22.3	11.4	0.32	50	0.48	0.58	0.95	35	3
Bonchester-le-Street	J. D. Trail, M.B., Ch.B., D.P.H.	2,656	17,820	401	14	189	22.5	10.6	0.17	25	0.28	0.34	0.51	30	179
Bonsett	J. G. Walker, M.R.C.S., L.R.C.P. D.P.H.	10,042	36,760	751	34	414	20.4	11.3	0.14	39	0.49	0.68	0.24	75	122
Brook & Willington	F. Lishman, M.B., B.S.	15,476	27,560	519	21	316	18.8	11.5	0.15	56	0.33	0.44	0.44	69	9
Belling	W. D. M. Millar, M.B., B.S., B.Hy., D.P.H.	3,349	24,560	492	20	301	20.0	12.3	0.24	67	0.49	0.61	0.61	87	5
Bolton	Do.	1,554	22,780	502	14	292	22.0	12.8	0.22	68	0.75	0.97	1.27	122	8
Bolton	Lilian A. M. Johnston, B.Sc., M.B., Ch.B., D.P.H.	4,551	18,970	365	15	194	19.2	10.2	—	38	0.69	0.74	0.63	64	—
Boughton-le-Spring	Do.	5,026	28,490	636	21	339	22.3	11.9	0.21	44	0.28	0.35	1.16	89	42
Boughton	H. E. Dunstan, M.B., B.S., M.R.C.S., L.R.C.P.	5,145	13,540	252	5	155	18.6	11.4	0.07	56	0.22	0.30	0.52	40	11
Bramham	W. J. Peden, L.R.C.P.I. & L.M., L.R.C.S.I. & L.M., D.P.H.	2,469	24,990	585	13	287	23.4	11.5	0.12	44	0.44	0.48	0.82	84	12
Bridlington	P. Y. Anderson, M.B., B.S.	4,970	14,180	296	10	186	20.9	13.1	0.07	61	0.35	0.49	1.13	45	—
Brimmynoor	S. V. Tinsley, M.B., Ch.B.	7,543	18,710	454	20	231	24.3	12.3	0.11	46	1.02	1.12	0.37	66	1
Brinsford	J. Leiper, M.B.E., M.B., Ch.B., M.R.C.S., L.R.C.P., D.P.H.	12,658	48,110	975	42	574	20.3	11.9	0.08	49	0.39	0.50	0.75	149	7
Brinsford	A. Charlton, M.B., B.S.	477	3,070	75	3	55	24.4	17.9	—	13	—	—	0.65	11	4
Brinsford	W. D. M. Millar, M.B., B.S., B.Hy., D.P.H.	5,768	17,040	332	12	189	19.5	11.1	0.29	60	0.41	0.59	0.65	49	5
Brinsford	H. Morrison, M.D., B.Hy., D.P.H.	6,074	22,250	434	9	238	19.5	10.7	0.27	51	1.03	1.17	0.67	66	30
RURAL DISTRICTS.															
Barnard Castle	J. G. Paley, M.R.C.S., L.R.C.P., D.P.H.	110,118	16,430	318	8	228	19.4	13.9	0.18	63	0.12	0.24	0.49	41	5
Bonchester-le-Street	G. Millar, M.B., Ch.B., B.Hy., D.P.H.	22,223	40,720	875	32	448	21.5	11.0	0.10	46	0.47	0.59	0.56	143	8
Bartholomew	Vacant	45,128	9,382	152	11	114	16.2	12.2	0.11	46	0.11	0.21	0.53	31	20
Barnard	K. Falconer, M.D., D.P.H.	34,598	32,110	725	23	340	22.6	10.6	0.16	50	0.47	0.59	0.53	83	33
Barnard	E. F. Dawson-Walker, M.D. B.Hy., D.P.H.	34,653	79,600	1,751	49	805	22.0	10.1	0.23	54	0.31	0.40	0.79	157	97
Barnard	J. G. Walker, M.R.C.S., L.R.C.P. D.P.H.	44,243	14,490	259	10	157	17.9	10.8	—	42	0.28	0.28	0.69	29	97
Barnard	M. Hopper, M.B., B.S., B.Hy., D.P.H.	39,265	35,210	677	11	358	19.2	10.2	0.14	49	0.43	0.62	0.57	67	142
Barnard	G. S. Mather, M.B., Ch.B., D.P.H.	41,118	7,456	161	5	83	21.6	11.1	0.13	43	0.54	0.54	0.54	24	5
Barnard	R. C. F. Smith, M.D., D.P.H.	8,366	23,430	514	17	293	21.9	12.5	0.21	58	0.85	1.19	0.77	66	52
Barnard	D. Thomson, O.B.E., M.B., Ch.B.	99,513	8,952	144	11	125	16.1	14.0	0.11	28	0.34	0.45	0.34	31	29
Administrative County		623,260	863,530	18,408	691	10,025	21.3	11.6	0.16	49	0.50	0.63	0.69	2,305	1,371



TABLE C.

DEATHS AT CERTAIN AGES AND FROM CERTAIN SPECIFIED CAUSES WITHIN THE URBAN AND RURAL DISTRICTS OF THE ADMINISTRATIVE COUNTY OF DURHAM—1946.

LOCAL DISTRICTS.	DEATHS AT SUBJOINED AGES										DEATHS FROM SUBJOINED CAUSES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	At all Ages.	Under 1 Year.	1 and under 2	2 and under 3	3 and under 4	4 and under 5	5 and under 6	6 and under 7	7 and under 8	8 and under 9	9 and under 10	10 and under 11	11 and under 12	12 and under 13	13 and under 14	14 and under 15	15 and under 16	16 and under 17	17 and under 18	18 and under 19	19 and under 20	20 and under 21	21 and under 22	22 and under 23	23 and under 24	24 and under 25	25 and under 26	26 and under 27	27 and under 28	28 and under 29	29 and under 30	30 and under 31	31 and under 32	32 and under 33	33 and under 34	34 and under 35	35 and under 36	36 and under 37	37 and under 38	38 and under 39	39 and under 40	40 and under 41	41 and under 42	42 and under 43	43 and under 44	44 and under 45	45 and under 46	46 and under 47	47 and under 48	48 and under 49	49 and under 50	50 and under 51	51 and under 52	52 and under 53	53 and under 54	54 and under 55	55 and under 56	56 and under 57	57 and under 58	58 and under 59	59 and under 60	60 and under 61	61 and under 62	62 and under 63	63 and under 64	64 and under 65	65 and under 66	66 and under 67	67 and under 68	68 and under 69	69 and under 70	70 and under 71	71 and under 72	72 and under 73	73 and under 74	74 and under 75	75 and under 76	76 and under 77	77 and under 78	78 and under 79	79 and under 80	80 and under 81	81 and under 82	82 and under 83	83 and under 84	84 and under 85	85 and under 86	86 and under 87	87 and under 88	88 and under 89	89 and under 90	90 and under 91	91 and under 92	92 and under 93	93 and under 94	94 and under 95	95 and under 96	96 and under 97	97 and under 98	98 and under 99	99 and under 100	100 and under 101	101 and under 102	102 and under 103	103 and under 104	104 and under 105	105 and under 106	106 and under 107	107 and under 108	108 and under 109	109 and under 110	110 and under 111	111 and under 112	112 and under 113	113 and under 114	114 and under 115	115 and under 116	116 and under 117	117 and under 118	118 and under 119	119 and under 120	120 and under 121	121 and under 122	122 and under 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and under 179	179 and under 180	180 and under 181	181 and under 182	182 and under 183	183 and under 184	184 and under 185	185 and under 186	186 and under 187	187 and under 188	188 and under 189	189 and under 190	190 and under 191	191 and under 192	192 and under 193	193 and under 194	194 and under 195	195 and under 196	196 and under 197	197 and under 198	198 and under 199	199 and under 200	200 and under 201	201 and under 202	202 and under 203	203 and under 204	204 and under 205	205 and under 206	206 and under 207	207 and under 208	208 and under 209	209 and under 210	210 and under 211	211 and under 212	212 and under 213	213 and under 214	214 and under 215	215 and under 216	216 and under 217	217 and under 218	218 and under 219	219 and under 220	220 and under 221	221 and under 222	222 and under 223	223 and under 224	224 and under 225	225 and under 226	226 and under 227	227 and under 228	228 and under 229	229 and under 230	230 and under 231	231 and under 232	232 and under 233	233 and under 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and under 623	623 and under 624	624 and under 625	625 and under 626	626 and under 627	627 and under 628	628 and under 629	629 and under 630	630 and under 631	631 and under 632	632 and under 633	633 and under 634	634 and under 635	635 and under 636	636 and under 637	637 and under 638	638 and under 639	639 and under 640	640 and under 641	641 and under 642	642 and under 643	643 and under 644	644 and under 645	645 and under 646	646 and under 647	647 and under 648	648 and under 649	649 and under 650	650 and under 651	651 and under 652	652 and under 653	653 and under 654	654 and under 655	655 and under 656	656 and under 657	657 and under 658	658 and under 659	659 and under 660	660 and under 661	661 and under 662	662 and under 663	663 and under 664	664 and under 665	665 and under 666	666 and under 667	667 and under 668	668 and under 669	669 and under 670	670 and under 671	671 and under 672	672 and under 673	673 and under 674	674 and under 675	675 and under 676	676 and under 677	677 and under 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and under 734	734 and under 735	735 and under 736	736 and under 737	73

TABLE D.

TABULATED STATEMENT OF THE CHIEF VITAL STATISTICS OF THE ADMINISTRATIVE COUNTY OF DURHAM FOR THE YEAR 1946, COMPILED FROM THE MONTHLY RETURNS SUPPLIED TO THE COUNTY MEDICAL OFFICER BY THE DISTRICT REGISTRARS.

AREA.	R.G. Est'mtd Popula- tion 1946	Live Births.	Deaths.	Deaths from seven principal infective diseases	RATES PER 1,000 POPULATION.				Deaths under 1 year per 1,000 Births.	Percent- age of Uncerti- fied Deaths to total Deaths.
					Birth- rate	Death- rate.	Seven principal infective Diseases death- rate.	Phthisis death rate.	Bronchi- tis, Pneu- monia and Pleurisy	
Municipal Boroughs	130,880	3,034	1,615	25	23.2	12.3	0.19	0.63	0.84	6.3
Other Urban Districts	464,870	9,798	5,459	74	21.1	11.7	0.16	0.51	0.68	5.7
Rural Districts	267,780	5,576	2,951	43	20.8	11.0	0.16	0.40	0.63	4.8
ADMINISTRA- TIVE COUNTY	863,530	18,408	10,025	142	21.3	11.6	0.16	0.50	0.69	5.5
England and Wales	40,745,000	819,894	489,054	5,042	19.1	12.0	0.12	0.48	1.17	—

